

# New York State Museum Bulletin

Entered as second-class matter November 27, 1915 at the Post Office at Albany, N. Y., under the act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in section 1103, act of October 3, 1917, authorized July 19, 1918

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Nos. 243-244

ALBANY, N. Y.

MARCH-APRIL 1921

## The University of the State of New York New York State Museum

JOHN M. CLARKE, *Director*

HOMER D. HOUSE, *State Botanist*

### REPORT OF THE STATE BOTANIST FOR 1921

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ALBANY

THE UNIVERSITY OF THE STATE OF NEW YORK

1923

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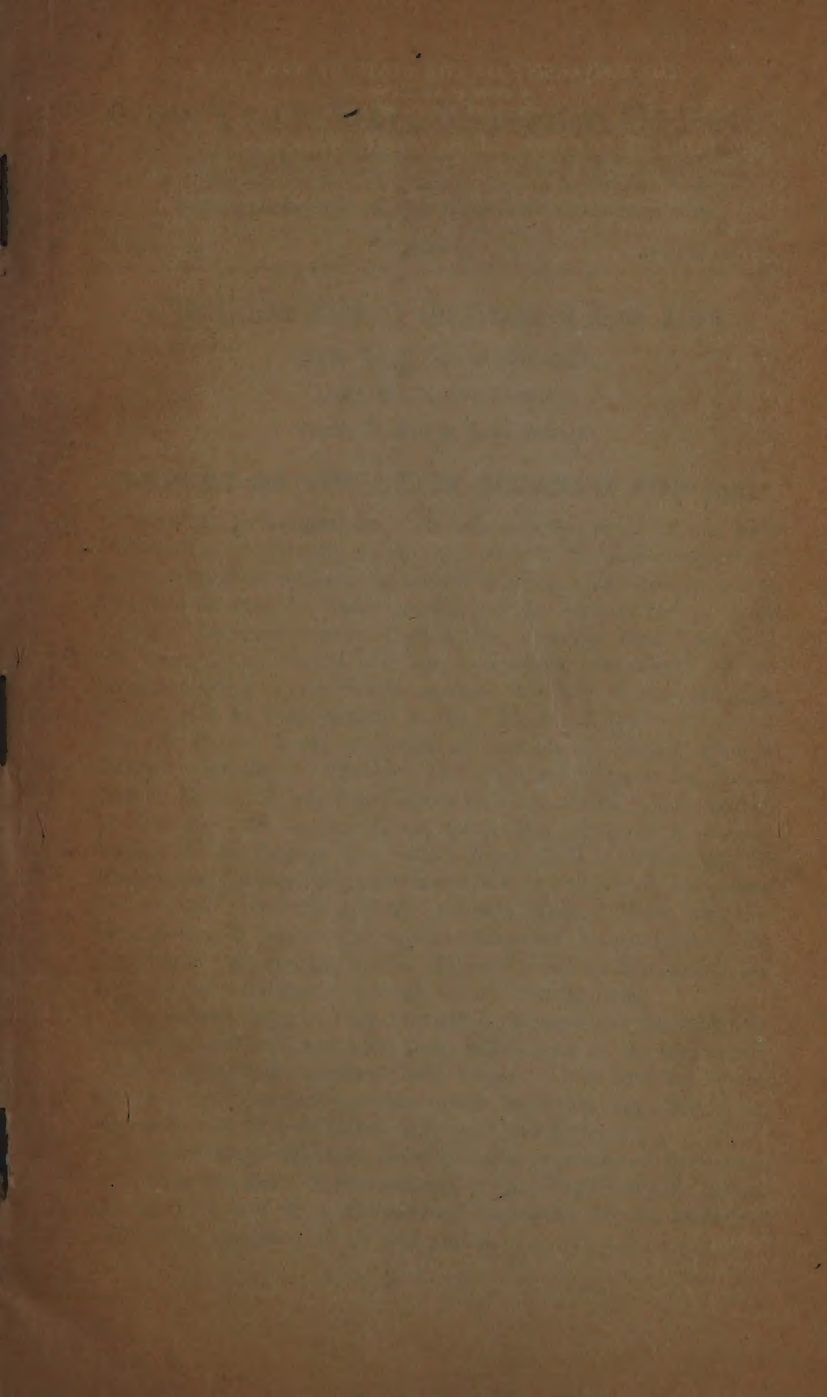
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### New York State Museum

JOHN M. CLARKE, Director

HOMER D. HOUSE, State Botanist

### REPORT OF THE STATE BOTANIST FOR 1921

**Scientific investigations.** The investigative work of the State Botanist has been largely devoted to a study of the native vegetation, and its ecological relations, in several localities. The three principal localities selected for these studies are the eastern end of Lake Ontario, the region around Oneida lake in central New York, and the township of Newcomb in the Adirondack mountains. At the latter locality it is proposed to continue the study of the vegetation of this area as a supplement to the "Plants of North Elba," by the late Doctor Peck, published as Bulletin 28. North Elba is located northeast of Newcomb and separated from it by Mount Marcy, Mount McIntyre and other high mountains. The distance between the two sections is not great, but Newcomb is drained largely by the Hudson river, while North Elba is drained by the Ausable and Saranac rivers, and hence lies north of the divide between the Atlantic (Hudson) and St Lawrence basins. While both sections possess in general the typical Adirondack vegetation there are many minor differences in the character of plant life which will be more fully elaborated through future investigations.

The eastern shore of Lake Ontario is characterized chiefly by the numerous sand bars and sand dunes which separate the lake proper from many partially inclosed shallow bays. These bays are largely bordered by extensive marshes which with the bays afford an unusually rich flora of marsh and water-loving plants.

A report has already been made upon the vegetation of the eastern end of Oneida lake. Investigations there are directed mainly toward the working out of a more exact knowledge of the ecological relations of the plant life of that region.

In all the areas studied extensive collections were made for the purpose of record in the state herbarium. Considerable time has been spent in the study of various groups of small fungi, both parasitic and saprophytic. The large number of plants submitted to this office for information regarding the control of such diseases makes it imperative that as much time as is available be spent upon such investigations.

While routine matters occupy much time, opportunity was found to prepare a numbered check list of the ferns and flowering plants of the State, which may serve as a basis for a more complete flora of the State to be published at some future time.

Investigations upon the flora of New York State during the past few years have involved not only the necessary field work, and study of herbarium material, but have also necessitated a careful review of all the literature dealing with the botany of the State either wholly or in part.

Largely as a matter of curiosity, and partly because it has been suggested in certain quarters that the field of natural history research in this State was an "unoccupied field," the Botanist has brought together a brief summary of the work in botany which has been done in this State since the earliest available record. The total number of pages of printed matter on the plant life of the State is doubtless a poor indication of the relative value of such pages, but for lack of a more precise method of comparison it may serve as a sort of indicator as to the relative amount of such work performed by the State Museum.

The total number of pages of printed matter on the flora of New York State, since the beginning of the nineteenth century, to January 1920 (excluding experiment station bulletins and forestry reports, where such are not exclusively botanical), is 10845

(Approximately 200 authors)

The total number of pages of printed matter on the flora of New York State, printed under the auspices of the Regents, and later as publications of the New York State Museum, to January 1920, is 5265

These are distributed as follows:

- a Annual Reports, State Botanist, 1867 (1871) to 1917 (1920), exclusive of pages of wholly extralimital matter, but including contributions on botany of the State by others than the State Botanist, pages, 3851
- b Other bulletins on the botany of the State by the State Botanist, pages, 195
- c Botanical papers in the Regents Reports, prior to 1870, by others than the official State Botanist, including Torrey's Flora of the State (part 2, of the Natural History Survey of New York, 1843), and Peck's Memoir 4, on Fungi, pages, 1676
- d Botanical articles by Peck on the state flora published in reports other than those of this Department, pages, 133
- e Wild Flowers of New York, pages, 323

It will be seen from this inadequate summary that the Regents and the State Education Department have had the supervision of the

publication of 48.5 per cent of all the botanical literature dealing with the botany and plant life of the State.

It is also worth noting that nearly 39 per cent of all this literature was produced by one man, the late Doctor Peck, former State Botanist, between 1867 and 1912, with less than 5 per cent of contributed matter and with the aid of an assistant during only a few years.

This brief review does not take into account any comparison of illustrations or plates, although the record indicates that over 80 per cent of the plates, illustrative of the plant life of the State, have been published under the supervision of the Regents and the State Education Department.

Investigations of a cooperative nature have been carried on with Prof. John Dearness of London, Canada, upon certain parasitic and saprophytic forms of fungi. The results of these investigations are presented in another part of this report as a joint paper. Extensive collections of seed of the evening primrose (*Oenothera biennis* L.) were secured from several sections of the State and submitted to Dr H. H. Bartlett, director of the botanic gardens, University of Michigan, where the seeds are being grown and a study made of the various mutants which may result.

**Noteworthy contributions.** The chief additions to the state herbarium during the year in the form of contributions and exchanges, are presented in the following list of contributors, which indicates the number of specimens received from each.

The most important contribution was the herbarium of the late F. E. Fenno, of Earlville, donated by Mrs Fenno, acknowledged in the preceding report, but only arranged and added to the herbarium during the past year. Mr Fenno had for many years, in addition to his duties as a teacher and school principal in the schools of this State, devoted much of his spare time to the study of botany, and has contributed valuable papers for publication upon the plant life of the Upper Susquehanna valley (State Museum Bulletins 67, 75, and 217-218). His untimely death by drowning early in 1920 is a distinct loss to the large group of amateur botanists in this State.

#### Contributions to the State Herbarium

|                                                        |     |
|--------------------------------------------------------|-----|
| New York Botanical Garden (exchange).....              | 415 |
| Ira Clokey, State Museum, Denver, Col. (exchange)..... | 354 |
| J. C. Nelson, Salem, Ore. (exchange).....              | 310 |
| Percy Wilson, New York, (exchange).....                | 180 |
| J. M. Grant, Langeley, Wash. (exchange).....           | 100 |
| Miss Helen LaForce, Deland, Fla.....                   | 80  |
| M. S. Baxter, Rochester.....                           | 76  |
| Dr A. H. W. Povah, Syracuse (exchange).....            | 55  |

|                                                                                                                                                                                                                                                           |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Mrs D. E. House, Pasadena, Cal.....                                                                                                                                                                                                                       | 55   |
| Dr James S. Wier, Spokane, Wash. (exchange).....                                                                                                                                                                                                          | 32   |
| Dr Anne E. Perkins, Collins.....                                                                                                                                                                                                                          | 20   |
| Gray Herbarium, Harvard University (exchange).....                                                                                                                                                                                                        | 14   |
| Dr H. M. Denslow, New York.....                                                                                                                                                                                                                           | 10   |
| Dr David Sumstine, Pittsburgh, Pa.....                                                                                                                                                                                                                    | 8    |
| Roy G. Pierce, Washington, D. C.....                                                                                                                                                                                                                      | 7    |
| Dr H. S. Jackson, Lafayette, Ind.....                                                                                                                                                                                                                     | 5    |
| Dr Emmaline Moore, Conservation Commission.....                                                                                                                                                                                                           | 4    |
| Mrs Orra Parker Phelps, Wilton.....                                                                                                                                                                                                                       | 4    |
| Dr J. J. Davis, Madison, Wis.....                                                                                                                                                                                                                         | 3    |
| Bureau of Plant Industry, Washington, D. C.....                                                                                                                                                                                                           | 2    |
| Mable Martin, Broadalbin; Charlotte Borgardus, Coxsackie; C. E.<br>Chandon, Ithaca; Dr E. P. Felt, Albany; Dr G. G. Atwood, Albany;<br>Dr L. O. Overholts, State College, Pa.; Florence Beckwith, Rochester;<br>Dr W. A. Murrill, New York, one each..... | 8    |
| Total .....                                                                                                                                                                                                                                               | 1742 |

The total number of specimens which have been added to the state herbarium from all sources is 2542, of which 1742 were received either in exchange or as contributions, as indicated above. The other 800 specimens were collected by the State Botanist in the following counties:

|           |            |          |
|-----------|------------|----------|
| Albany    | Madison    | Saratoga |
| Essex     | Oneida     | Ulster   |
| Greene    | Oswego     | Warren   |
| Jefferson | Rensselaer | Onondaga |
| Lewis     |            |          |

In addition to the 1070 specimens reserved from the current collections for the state herbarium, approximately 1600 specimens were collected to be used in exchange with other institutions.

**Identifications.** The State Botanist's office has been called upon to identify 395 specimens of plants, including many edible and poisonous kinds of mushrooms and various parasitic or disease-causing fungi. These identifications were asked for by 155 different persons. This is a marked increase over the plant identification service rendered during the preceding year (1920), when 260 specimens were identified for 140 different persons.

**Chestnut blight** (*Endothia parasitica*). During 1921 observations were made at various localities on the spread and extent of the chestnut blight. Northward the disease has spread to the northern limits of the distribution of the host in Rensselaer, Albany and Saratoga counties, although owing to the scattered distribution of the chestnut northward, not all the trees are as yet infected. In the lower Mohawk valley, owing to the scattered distribution of the host tree, the disease is as yet somewhat sporadic. While there is a rather thin and uneven natural distribution of the chestnut up the Mohawk valley and on over into the Ontario lowlands where it

becomes common, the chestnut blight apparently has not as yet penetrated to this region.

In the Hudson valley and the foothills of the Catskill mountains the destruction of the chestnut has been most complete. Practically all chestnut trees have been killed at least in part. Most of the diseased trees sprout again from the trunk or around the base of the trunk. These shoots live a year or two, sometimes longer, and are in turn infected by the disease and die. This persistency of sprout growth on the blight-killed chestnut causes a constant recurrence of the disease and renders distant and perhaps hopeless a time when, the disease having run its course, new chestnut trees may be planted.

In most sections where any care is taken of the woodlands the dead chestnut trees are cut down and used for timber or firewood. In consequence there is left in the woods a large void, since in many places the forests and woodlands formerly contained from 15 to 20 per cent of chestnut, especially below 1000 feet altitude.

Other trees have not been slow to take advantage of this change and almost everywhere there is a vigorous growth of young oaks (white, chestnut, red, scarlet and black). Left to nature the forests of this region in the future will be quite unlike those of former days.

Some owners are planting white pine where the chestnut has been killed and removed, which would be an excellent idea if we could be sure that it in turn would not fall a prey to the white pine blister rust. There is an abundance of wild gooseberry and currant in this region to act as alternate hosts for the white pine blister rust.

Scotch pine is apt to prove a more acceptable conifer for planting in the region, and has many points of excellence to recommend its use. It is free from any serious rust similar to that of the white pine, it is less sensitive to ground fires which are numerous and very destructive to white pine in the Hudson valley and Catskill region and it will produce a better growth in mixtures with the hardwoods than will white pine.

**Lectures.** During 1921 the State Botanist has delivered twelve lectures upon wild flowers and wild flower protection in various parts of the State.

**Publications.** The following articles on botany have been published by the State Botanist, in journals devoted chiefly to botany:

The Genus *Aetopteron*, Ehrhart. *American Fern Journal*, 10: 88-89. 1920  
A Consideration of Certain Genera Proposed by Ehrhart. *American Midland Naturalist*, 6: 200-7. 1920

The Wild Flower Preservation Idea is one of Practical Value. *Torreyia*, 21: 17-22. 1921

Conservation of Wild Flowers. *Conservationist*, 3: 119-21. 1920

Nomenclatorial Notes on Certain American Plants. I. *American Midland Naturalist*, 7: 126-35. 1921

Florida plants collected by Miss LaForce. During the winter months of 1920-21, Helen LaForce, temporary assistant in the Botanist's office, made a small collection of plants chiefly in the vicinity of Deland, Fla. This collection was limited by the time available for the work and by the fact that most of the specimens had to be gathered during a short period in the early spring of 1921. About 80 specimens were made and of them the following have been incorporated into the state herbarium:

- Aster concolor* L.
- Berlandiera pumila* (Michx.) Nutt.
- Bradburya virginiana* (L.) Kuntze
- Cassia fasciculata* Michx.
- " *nictitans* L.
- Chrysopsis graminifolia* (Michx.) Nutt.
- Commelina communis* L.
- Cuthbertia rosea* (Vent.) Small
- Clitoria mariana* L.
- Cracca purpurea* L.
- Eupatorium mikanioides* Chapm.
- Eriogonum tomentosum* Michx.
- Gerardia divaricata* Chapm.
- " *tenuifolia* L.
- " *fasciculata* Ell.
- Gelsemium sempervirens* (L.) Ait. f.
- Leptilon canadense* (L.) Britton
- Lespedeza virginica* (L.) Britton
- " *repens* (L.) Barton
- Lacinaria Smallii* Britton
- " *elegans* (Walt.) Kuntze
- " *pauciflora* (Pursh) Kuntze
- Lobelia glandulosa* Walt.
- Lygodesmia aphylla* (Nutt.) DC.
- Petalostemon corymbosus* Michx.
- Polygonella gracilis* (Nutt.) Meissn.
- " *polygama* (Vent.) A. Gray
- Polygala grandiflora* Walt.
- Phlox floridana* Benth.
- Pieris nitida* (Bartr.) B. & H.
- Pinguicula edatior* Michx.
- " *lutea* Walt.
- " *pumila* Michx.
- Piaropus crassipes* (Mart.) Britton
- Rhexia alifanus* Walt.
- Raimannia humifusa* (Nutt.) Rose
- Rhynchosia simplicifolia* (Walt.) Wood
- Ruellia humilis* Nutt.
- Solanum carolinense* L.
- Syngonanthus flavidulus* (Michx.) Ruhl
- Trilisa paniculata* (Walt.) Cass.
- Trichostema dichotoma* L.
- Tradescantia reflexa* Raf.
- Verbena carolinensis* (Walt.) J. F. Gmel.

## PLANTS NEW TO THE STATE HERBARIUM

## A Ferns and Flowering Plants

A number of the plants here reported for the first time have not been collected during 1921, but the description or the reports of them have not been previously published.

- Actaea alba* f. *rubrocarpa* Killip  
*Agastache Foeniculum* (Pursh) Kuntze  
     "    *urticifolia* (Benth.) Kuntze  
*Aquilegia canadensis* f. *albiflora* House  
*Anemone virginiana* f. *rubrosepala* House  
*Arabis viridis* Harger  
*Aster linariifolius* f. *lateralis* House  
     "    "    f. *monocephalus* House  
*Aster novae-angliae* f. *geneseensis* House  
     "    "    f. *rosarius* House  
     "    *Pringlei* (Gray) Britton  
*Betula coerulea* Blanchard  
*Blephariglossis psychodes* f. *albispicata* House  
*Blephilia hirsuta* f. *albiflora* House  
*Calluna vulgaris* (L.) Salisb.  
*Carex interior* incompta x *interior*  
     "    *scoparia* var. *tessellata* Fernald & Wiegand  
*Chaetochloa viridis* var. *Weinmanni* (R. & S.) House  
*Cirsium arvense* f. *albiflorum* House  
*Cypripedium acaule* f. *albiflorum* House  
     "    *arietinum* f. *albiflorum* House  
*Dentaria diphylla* x *maxima* Haberer  
     "    *laciniata* x *maxima* Haberer  
     "    *laciniata* x *diphylla* House  
*Doellingeria umbellata* var. *oneidica* House  
     "    "    var. *pubens* (A. Gray) House  
*Euphorbia dentata* Michx.  
*Galeorchis spectabilis* f. *Gordinierii* House  
*Hibiscus Moscheutos* f. *Peckii* House  
*Hypopitys lanuginosa* var. *rosea* (Torrey) House  
*Juncus inflexus* L.  
*Lathyrus palustris* var. *pilosus* (Cham.) Ledeb.  
*Lepidium perfoliatum* L.  
*Lilium philadelphicum* f. *flaviflorum* E. F. Williams  
*Limodorum tuberosum* f. *latifolium* (St John) House  
     "    "    f. *linariifolium* House  
*Limonium trichogonum* f. *albiflorum* (Raf.) House  
*Linnaea americana* f. *candicans* House  
*Lycopodium clavatum* f. *sterilis* House  
*Lysimachia terrestris* x *thrysisiflora* Fernald & Wiegand  
*Malva sylvestris* var. *mauretiana* (L.) Boiss.  
*Meibomia nudiflora* f. *Dudleyi* House  
*Mimulus alatus* f. *albiflorus* House  
     "    *ringens* f. *Peckii* House  
*Nepeta hederacea* var. *parviflora* (Benth.) House  
*Onobrychis Onobrychis* (L.) Rydberg  
*Origanum vulgare* f. *albiflorum* House  
*Oxalis oneidica* House  
*Polygala polygama* f. *albiflora* House  
     "    *viridescens* f. *albiflora* (Mills.) House  
*Polygonum pennsylvanicum* var. *nesophilum* Fernald

- Pontedera cordata* f. *angustifolia* (Pursh) House  
 " " f. *latifolia* (Raf.) House  
*Ranunculus Boraeanus* Jordan  
 " *sicaeformis* Mackenzie & Bush  
*Rhus copallina* var. *nesophila* House  
*Rosa serrulata* Raf.  
*Rubus odoratus* f. *albiflorus* House  
 " *strigosus* var. *canadensis* (Richards.) House  
 " " var. *heterolasius* (Fernald) House  
*Senecio aureus* x *pauperculus* House  
 " *aureus* x *Robbinsii* House  
*Solidago graminifolia* var. *galetora* (Greene) House  
*Spartina juncea* var. *caespitosa* (A. A. Eaton) Hitchc.  
*Trientalis latifolia* Hook.  
*Verbaschum Blattaria* f. *albiflorum* (G. Don) House  
 " *Lychnitis* f. *album* (Mill.) House  
*Viola eriocarpa* var. *leiocarpa* Fernald  
 " *lanceolata* x *pallens* House  
 " *palmata* x *sororia* House  
 " *pedata lineariloba* f. *rosea* (Sanders) House  
 " *pubescens* var. *Peckii* House  
 " *rostrata* f. *Phelpsiae* House  
 " *rugulosa* Greene  
 " *sororia* f. *Beckwithii* House  
*Washingtonia longistylis* var. *villicaulis* (Fernald) House

## B Fungi

This list includes only collections made in New York State and which are new to the fungus flora of the State. Specimens received in exchange or by contribution representing species new to the state herbarium are not included if they have been collected outside the State.

- Aecidium Dicentrae* Trelease  
*Cercospora galli* E. & H.  
 " *menispermii* E. & E.  
 " *sagittariae* E. & K.  
*Cintractia Taubertiana* (P. Henn.) Clinton  
*Cladosporium gloeosporioides* Atk.  
*Coccomyces coronatus* (Schum.) DeNot.  
*Cylindrosporium clematidis* E. & E.  
*Dinemasporium hispidulum* (Schr.) Sacc.  
*Entyloma lineatum* (Cooke) Davis  
*Glenospora melioloides* Curt.  
*Gloeosporium polygoni* Dearn. & House  
*Gnomonia papillostoma* Dearn. & House  
*Haplosporella dulcamara* Dearn. & House  
*Harknessia Foeda* Sacc. & Dearn.  
*Melampsora Euphorbiae* (Schreb.) Cast.  
*Melampsoropsis chiogenis* (Diet.) Arth.  
*Microdiplodia populi* Dearn. & House  
 " *spiraeicola* Dearn. & House  
*Micropuccinia conglomerata* (Schum.) Arth. & Jackson  
 " *recedens* (Sydow) Arth. & Jackson  
*Mollisia iridis* (Rehm.) Sacc.  
*Mycosphaerella oxycocci* Dearn. & House  
*Myxosporium Ellisii* Sacc.  
*Odontia candidissima* (B. & R.) Burt

- Pestalozzia monochaetoidea* var. *parasitica* Dearn. & House  
*Poria flavidans* Karst.  
*Phyllachora agrostidis* Orton  
     " *elymi* Orton  
     " *vulgata* Theiss. & Sydow  
     " *luteomaculata* (Schw.) Orton  
     " *puncta* (Schw.) Orton  
*Phyllosticta guttulata* Hals.  
     " *iridis* E. & M.  
*Septoria aquilegiae* Penz. & Sacc.  
     " *pallidula* Dearn. & House  
*Spegazzinea rubra* Dearn. & House  
*Sphaeropsis betulae* var. *lutea* Dearn. & House  
*Sphaerulina acori* Dearn. & House  
*Trametes Morgani* Lloyd  
     " *protracta* Fries  
*Urocystis carcinoides* (B. & C.) F. de W.

## LOCAL FLORA NOTES VIII

*Albany County****Andropogon scoparius* Michx.**

On the sand plains west of Albany, this is one of the most abundant of the grasses. Three forms are easily distinguished in the field, but when dried and mounted they lose much of their distinctiveness.

The literature at hand does not indicate that they have been formally recognized as varieties, nor is it my intention to do so here, but merely to call attention to the characters which are most marked in the field.

*a* The most abundant form. Nearly or quite glabrous, the culms purplish, sheaths green, sometimes with a rather sparse and spreading soft white pubescence toward the top of the sheath. Culms strictly erect.

*b* Culms strictly erect, averaging from 4 to 12 inches taller than *a*, when growing with it, purplish and conspicuously glaucous beneath the nodes; leaves relatively shorter and broader than *a*, the lower and middle ones one-fourth of an inch wide and from 5 to 7 inches long, light green above, conspicuously glaucous beneath and on the sheaths, somewhat more noticeably scabrous on the margins and on the midvein beneath than in *a*; sheaths copiously pubescent with soft white spreading hairs, especially toward the top of the sheath; pubescence of the inflorescence more copious than in *a*, but not longer.

*c* Stems quite markedly decumbent at the base, and averaging from a few inches to nearly a foot shorter than those of *a*, when growing with it; leaves about as narrow as *a*, but the sheaths very copiously pubescent, especially toward the top of the sheaths with conspicuously spreading white hairs which are somewhat stiffer than those of the same parts on either *a* or *b*. Color of the culms and leaves practically the same as *a*; no glaucous tint noticeable.

***Arabis viridis* Harger**

(Rhodora, 13:38. 1911)

Rocky woods, Glenmont. *House* 7872, May 24, 1921.

A rather conspicuously distinct plant which seems to have passed unnoticed until recently, or which has been included in *A. laevigata*, from which it differs by being bright green and more leafy, the white flowers with conspicuous petals and the pedicels noticeably erect.

***Asclepias intermedia* Vail**Sandy soil west of Albany, in open fields. *House* 7159, July 4, 1920.

The plant here recorded consisted of a single root with three flowering branches. The flowers possessed the clovelike odor of *A. obtusifolius*, which is common here, and the character of the leaves also indicated that *A. obtusifolius* was one of the parents of this hybrid. The hoods were pointed or acute as in *A. syriaca*, but the rather darkish purple color of the flowers would seem to indicate that the other parent species is *A. purpurascens*, which is not uncommon here, although less so than *A. syriaca*.

***Aster persaliens* Burgess**In dense woods of mixed hardwood and hemlock, near Clarksville. *House* 6831, October 15, 1919.

A very distinct member of the group of species usually included in *Aster divaricatus* L. and which should at least be regarded as of varietal rank.

***Aster linariifolius* L.**

This beautiful aster is very common on the sand plains west of Albany, and presents numerous variations with respect to the inflorescence. The common form here as elsewhere in the State has the heads of the inflorescence numerous and terminating short peduncles, the peduncles provided with small appressed leaflike scales. These peduncles vary in length from 4 to 10 cm and in number from three or four to a stem to large congested inflorescences of thirty or forty heads. Two extremes, however, merit definite record, namely:

Forma *monocephalus* forma nova. Stems branched near or below the middle; heads solitary and terminal on each branch, the peduncle portion of which is 6 to 10 cm long, and with its reduced leaves presents a marked contrast to the larger leaves below and resembles somewhat in appearance single-headed forms of *Aster nemoralis*. Karner, Albany county. *C. H. Peck*.

**Forma *lateralis* forma nova.** Stems normal as regards size and foliage, the flowering heads scattered and borne upon short axillary peduncles (1-2 cm long) in the axils of the leaves above the middle of the stem, the peduncles shorter than the subtending leaves, sometimes also one of the short-peduncled heads terminal on the stem. Karner, Albany county. *C. H. Peck.*

***Aster laevis* L., var. *concinus* (Willd.) comb. nov.**

*Aster concinns* Willd. Enum. 884. 1809

The typical form of this variety has extremely long and correspondingly narrow leaves, and appears quite distinct, but intermediate forms between it and the typical *Aster laevis* are not rare in the highlands adjacent to the Hudson valley in Albany county.

Clarksville. *House* 7661, September 18. Green's lake, Catskill, Greene county. *House* 5970, August 17, 1915 (photographed for the "Wild Flowers of New York"). Whitehall, Washington county, *Peck.* Intermediate form: Sandy woods west of Albany. *House*, September 14, 1916 (photographed for *A. laevis*, in the Wild Flowers of New York). The extremely broad-leaved form, var. *amplifolius* Porter, occurs at Lake Mohonk, Ulster county, *Peck.*

***Betula coerulea* Blanchard**

On dry rocky, partially wooded hillside near Glenmont. *House* 6794, August 26, 1919.

***Blephariglottis lacera* (Michx.) Farwell, forma *elongata* (Peck) comb. nov.**

*Habenaria lacera* var. *elongata* Peck, 46th Rep't N. Y. State Mus. 49. 1893

Selkirk. *Dr C. H. Peck.*

The inflorescence greatly elongated, the flowers rather distant and subtended by large foliaceous or leaflike bracts.

***Botrychium obliquum* var. *oneidense* Gilbert**

Sandy woods west of Albany. *House* 8721, October 18, 1921.

***Carex Bicknellii* Britton**

Rocky ledges under shade of cedars and pines, near Glenmont. *House* 7875, May 24, 1921. Dutchess and Tompkins counties are the only other recorded localities for this sedge in New York.

***Carex conoidea* Schk.**

Woods near Glenmont. *House* 6988, June 8.

**Carex glaucoides** Tuckerm.

Woods near Selkirk. *House* 7018, June 11.

**Carex laxiflora** var. **gracillima** Boott

Woods near Selkirk. *House* 7017, June 11.

**Carex leptonervia** Fernald

Woods near Glenmont. *House* 6989, June 8; and 7125, June 28.

**Carex normalis** Mackenzie

Wooded hillsides near Glenmont. *House* 6998, June 8, 1920; 7123, June 28.

**Carex radiata** (Wahl.) Small

Moist woods near Glenmont. *House* 6994, June 8.

**Carex retroflexa** Muhl.

Open woods near Glenmont. *House* 6991, June 8.

**Carex tonsa** (Fernald) Bicknell

Common on the sandy plains west of Albany. *House* 7712, April 15 to May 1, 1921.

**Elymus hirsutiglumis** Scribner

On sand bars along the Hudson river near Wemple. *House* 7514, August 23.

**Eupatorium trifoliatum** L.

In dry woods, near Wemple. *House* 7560, September 8.

Easily distinguished from any related species by its green stems, purple at the nodes only, the flowers few to a head and those much longer than in *E. purpureum*, and nearly white or at most a pale pink or flesh-colored when first opening, the styles very long and conspicuous, the flowers turning to a dingy pinkish color with age; leaves varying from two to six, but usually two or three, and quite often four to a whorl; leaves narrowed from below the middle to an attenuate base, the margins on each side of this base being concave. Described by Michaux as *E. falcatum*.

**Lupinus perennis** L.

The form with rose-colored or pink flowers, *forma rosea* Britton, and the form with pure white flowers, *forma albiracemus* Moore, were both observed at Karner, June 7.

**Lilium philadelphicum** L.

The form of this species with yellow flowers, *forma flaviflorum* E. F. Williams, was collected at Karner (*no.* 7154), in July 1921.

**Mimulus alatus Soland.**

Several years ago Doctor Peck collected near Albany, a form of this species with pure white corollas (34th Rep't N. Y. State Mus. 54), preserved in the state herbarium, and which may be designated as forma *albiflorus*, forma nova.

**Mimulus ringens L.**

A specimen of this species with pure white corollas was also collected by Doctor Peck, near Albany and likewise reported along with the preceding form. It is preserved in the state herbarium and may be designated as forma *Peckii*, forma nova.

**Oxalis rufa Small**

Sandy thickets, Karner. *House* 7856, May 23, 1921.

**Polygala paucifolia Willd., forma alba Wheelock.**

*P. paucifolia* var. *albiflora* Raf. Med. Bot., 2:64. 1830

*P. paucifolia* var. *alba* Eights, in T. & G. Fl. N. Am., 1:132. 1838

*P. paucifolia* var. *albiflora* Knight, Rhodora, 8:66. 1906

*P. paucifolia* forma *alba* Wheelock, Torr. Club Mem., 2:142. 1891; *House*, N. Y. State Mus. Bul. 205-206:27. 1917

A conspicuous and beautiful form of the species growing at Glenmont, Albany county, and also reported from several other localities throughout the State. The plants spread and propagate largely by means of the underground stems, so that large colonies of the white-flowered form are occasionally developed.

**Prunus americana Marsh., forma rosea (Peck) comb. nov.**

*Prunus americana* var. *rosea* Peck, 47th Rep't N. Y. State Mus. 27. 1894

Petals pink or rosy in color. Meadowdale. *Dr C. H. Peck* (state herbarium), also collected by Doctor Peck at Westport, Essex county.

**Raimannia laciniata (Hill) Rose**

Along railroad tracks at Selkirk. *House* 7027, June 11.

A native of the western states, and apparently introduced here with shipments of grain and hay, several of which upon inquiry, were said to have been received from the west during the past few seasons.

**Rosa serrulata Raf.**

Common in the dry sandy plains west of Albany and about Karner. *House* 6367, June 26, 1919.

**Senecio obovatus** Muhl.

Open woods near Glenmont. *House* 7003, June 8.

**Scirpus microcarpus** Presl., var. **Bissellii** (Fernald) comb. nov.

*S. Sylvaticus* var. *Bissellii* Fernald, *Rhodora*, 2:21. 1900

Marsh near Albany, *Wibbe* (state herbarium).

I can not find that this curious variety was ever reported by Doctor Peck. The plants are stout; spikelets 8-14 mm long; scales much darker than in either *S. sylvaticus* or in *S. microcarpus*; styles mostly two-divided, but occasionally three-divided in the same spikelet; sheaths with a marked reddish tinge. While combining certain characteristics of both *S. sylvaticus* and *S. microcarpus* (*S. rubrotinctus* Fernald), the preponderance of characters seems to indicate that it is more properly a variety of the latter.

**Viola affinis** LeConte

In low woods near Selkirk. *House* 7020, June 11.

Hybrid violets also noted here at the same time are: *V. affinis* x *cucullata*; *V. affinis* x *sororia*, and *V. cucullata* x *sororia*.

**Viola pedata** L., var. **lineariloba** DC.

Sandy thickets near Karner. *House* 6980, June 7.

This variety of the bird's-foot violet, with uniformly colored petals was first observed near Karner several years ago by Doctor Peck, and it is interesting to note that in spite of numerous destructive grass fires in this section, the species has persisted. It is rare outside of the coastal region in this State.

**Zizia cordata** (Walt.) DC.

Dry woods near Glenmont. *House* 7868, May 24, 1921.

*Cayuga County***Gentiana clausa** Raf.

Fernald (*Rhodora*, 19:147-149. 1917) maintains *G. Saponaria* L., *G. clausa* Raf., and *G. Andrewsii* Griseb. as three distinct species. Material available from all parts of New York State has not served to convince the writer that we have more than the two species of closed gentians, usually recognized, namely, *G. Saponaria* L., chiefly southern in distribution in this State, and *G. clausa* Raf., an older name for *G. Andrewsii* Griseb., of general distribution across the State.

The white-flowered form (*G. Andrewsii* var. *albiflora* A. Gray; *G. Andrewsii* forma *albiflora* Britton), has been collected at Auburn, Holzer (state herbarium), and may be designated now as *G. clausa*, forma *albiflora* (A. Gray) comb. nov. The same form has also been collected at Salamanca, Cattaraugus county, by *G. W. Clinton*.

*Broome County*

*Blepharigottis psycodes* (L.) Rydb., former *albispicata*, forma nova

Divisions of the corolla pure white. Reported from Broome county by *C. F. Millspaugh* (Torr. Club Bul., 12:101. 1885).

*Columbia County**Lycopodium clavatum* L.

There are two sheets of this species (five specimens) in the state herbarium, collected by Arthur K. Harrison, at Lebanon Springs, August 18, 1893, in which all the peduncles are greatly elongated, 20-50 cm long, and sterile (devoid of any terminal strobili). These might appear like sterile forms of the var. *megastachyum*, except that of the sixteen elongated peduncles on the five specimens, two are branched below the middle, and one above the middle.

This form may be designated as *L. clavatum* L., forma *sterilis*, forma nova.

*Delaware County*

During the summer season of 1920, the following plants were collected near Arkville, by Dr H. M. Denslow, and in 1921 deposited in the state herbarium:

*Botrychium neglectum* Wood  
 " *angustisegmentum* (Pease & Moore) Fernald  
 " *obliquum* Muhl.  
 " *obliquum* var. *oneidense* Gilbert  
*Camptosorus rhizophyllus* (L.) Link  
*Cryptogramma Stelleri* (Gmel.) Prantl.  
*Malaxis unifolia* Michx.  
*Cypripedium acaule* Ait.  
*Corallorrhiza trifida* Chat.  
 " *maculata* Raf.  
*Liparis Loeselii* (L.) Richard  
*Lysias Hookeriana* (A. Gray) Rydb.  
 " *orbiculata* (Pursh) Rydb.  
 " *macrophylla* (Goldie) House  
*Monotropa Hypopitys* L.

*Erie County**Ophrys australis* (Lindl.) House

This small member of the orchid family has recently been found at Concord by Edward A. Eames on May 29th. This is the first record for the species west of Wayne county in this State.

*Carex Hassei* Bailey

Moist meadow near Collins. Dr Anne E. Perkins, June 15, 1920 and May 15, 1921.

This is an interesting addition to the already large number of carices for New York State. Presque Isle, Pa., is the most easterly station for the species previously known.

**Onobrychis Onobrychis (L.) Rydberg**  
(*O. sativa* Lam.)

A native of the Old World and apparently well established near Collins, where collected by Dorothy Raymond in 1919 and 1920, and also by Dr Anne E. Perkins, who forwarded flowering and fruiting specimens in 1921. In full bloom on May 30th.

**Erythronium albidum Nutt.**

Collins. Dr Anne E. Perkins, April 15-20, 1921.

This was reported from Erie county by Clinton (19th Regents Rep't, 205. 1866) and was apparently once a fairly common meadow plant near Albany (see *Wright & Hall*, Pl. Vic. Troy 17, 1836), and several collections are in existence made by *Beck, Eights, Eaton, Torrey, Hall* and others. It is now a rare plant about Albany, although collected there in 1910 by *J. C. Smock*.

For the purpose of definite record it is desirable that the following plants collected by Dr Anne E. Perkins in the vicinity of Collins, should be listed with the dates of their collection. These specimens are preserved in the state herbarium.

1920

|                                                           |                       |
|-----------------------------------------------------------|-----------------------|
| <i>Polycodium stamineum</i> (L.) <i>Greene</i> .....      | June 3, August 2      |
| <i>Chamaelirium luteum</i> L.....                         | June 3                |
| <i>Cubelium concolor</i> (Forst.) <i>Raf.</i> .....       | June 3                |
| <i>Cypripedium pubescens</i> Willd.....                   | June 3                |
| <i>Ibidium plantagineum</i> (Raf.) <i>House</i> .....     | June 3                |
| <i>Phlox divaricata</i> L.....                            | June 3                |
| <i>Geranium pusillum</i> L.....                           | June 4                |
| <i>Pentstemon pallidus</i> <i>Small</i> .....             | June 6                |
| <i>Carex Shriveri</i> <i>Britton</i> .....                | June 18               |
| <i>Bromus inermis</i> <i>Leyss</i> .....                  | June 19               |
| <i>Sherardia arvensis</i> L.....                          | June 22               |
| <i>Evonymus atropurpureus</i> <i>Jacq.</i> .....          | June 22, September 10 |
| <i>Polanisia graveolens</i> <i>Raf.</i> .....             | August 1              |
| <i>Teucrium canadense</i> L.....                          | August 1              |
| <i>Lycopodium lucidulum</i> <i>Michx.</i> .....           | August 2              |
| <i>Thaspium barbinode</i> <i>Michx.</i> .....             | August 10             |
| <i>Cheirinia cheiranthoides</i> (L.) <i>Link.</i> .....   | August 15             |
| <i>Lespedeza frutescens</i> (L.) <i>Britton</i> .....     | August 15             |
| <i>Stachys palustris</i> L.....                           | August 15             |
| <i>Cimicifuga racemosa</i> (L.) <i>Nutt.</i> .....        | August 17             |
| <i>Monarda clinopodia</i> L.....                          | August 17             |
| " <i>mollis</i> L.....                                    | August 17             |
| <i>Agastache nepetoides</i> (L.) <i>Kuntze</i> .....      | August 17             |
| " <i>scrophulariaefolia</i> (Willd.) <i>Kuntze</i> .....  | August 17             |
| <i>Cassia marilandica</i> L.....                          | August 19             |
| <i>Gaura biennis</i> L.....                               | August 21             |
| <i>Nicotina rustica</i> L.....                            | August 22             |
| <i>Parnassia caroliniana</i> L.....                       | August 26             |
| <i>Epilobium hirsutum</i> L.....                          | August 26             |
| <i>Corallorrhiza maculata</i> <i>Raf.</i> .....           | September 1           |
| <i>Disporum lanuginosum</i> (Michx.) <i>Nichols</i> ..... | September 10          |
| <i>Solidago squarrosa</i> <i>Muhl.</i> .....              | October 1             |

## 1921

|                                                   |                  |
|---------------------------------------------------|------------------|
| <i>Mertensia virginica</i> (L.) Link.....         | April 15, May 16 |
| <i>Erythronium albidum</i> Nutt.....              | April 15         |
| <i>Polemonium repens</i> L.....                   | April 20         |
| <i>Phlox divaricata</i> L.....                    | April 20         |
| <i>Carex Hassei</i> Bailey.....                   | May 15           |
| <i>Houstonia canadensis</i> Willd.....            | May 15           |
| <i>Cardamine rotundifolia</i> Michx.....          | May 16           |
| <i>Disporum lanuginosum</i> (Michx.) Nichols..... | May 16           |
| <i>Cassia marilandica</i> L.....                  | August 5         |
| <i>Solidago squarrosa</i> Muhl.....               | September 4      |

*Essex County****Actaea rubra* (Ait.) Willd., forma *neglecta* (Gillman)**

B. L. Robinson

A not infrequent form of the red baneberry about Newcomb, possessing the slender pedicels of the typical species, but the mature fruit pure white in color. As the white baneberry (*A. alba*) does not occur in this section of the State, the form can not be suspected to be of hybrid origin.

***Aster roscidus* Burgess**

Dry woods near Schroon Lake. *House* 7654, September 16.

***Agastache Foeniculum* (Pursh) Kuntze**

Roadside thickets near Newcomb. *House* 8478, August 4, 1921.

Well established and conspicuous by its purple bracts, calyces and flowers. How this western species came to be so well established here is not apparent, as the spot is not near any habitations.

***Botrychium simplex* E. Hitchc.**

Moist sandy hillside among grasses, sedges and various herbs, shrubs and small evergreens near Newcomb. *House* 8012, June 8, 1921.

***Campanula rotundifolia* L., forma *albiflora* (G. Don)  
comb. nov.**

*C. rotundifolia* var. *albiflora* G. Don, Gen. Syst. 3: 758. 1838.

Indian Pass, Dr C. H. Peck (state herbarium), also collected by Doctor Peck at Lansingburg, Rensselaer county.

***Carex tenuiflora* Wahl.**

Frequent in swamps and bogs near Newcomb. *House* 7431, July 15-30, 1920, and June 3-10, 1921.

***Carex lenticularis* Michx.**

Common on the moist shores of Lake Harris. *House* 7428, July 15-30, 1920; 8083, June 12, 1921.

**Carex Kneiskernii Dewey**

(C. castanea x arctata)

Along the edge of woodland near Newcomb. *House 7421*, July 15-30, 1920; *7944*, June 6, 1921.

**Carex viridula Michx.**

Common on the shores of Lake Harris. *House 7391*, July 15-30. Nearly as abundant here is *C. cryptolepis* Mackenzie (no. 7392), and rarely also *C. irregularis* Schw. (no. 7394), which seems to be a proliferous variety of *C. cryptolepis*. *Carex flava* L. also is not rare here.

A more detailed account of the flora of the township of Newcomb is hoped to result from further studies during succeeding seasons. The region is particularly rich in members of the genus *Carex*, and the list below indicates those collected up to the end of the present season (1921):

|                                   |                                 |
|-----------------------------------|---------------------------------|
| <i>Carex abacta</i> Bailey        | <i>Carex vulpinoidea</i> Michx. |
| exilis Dewey                      | disperma Dewey                  |
| tenuiflora Wahl.                  | scoparia Schk.                  |
| lenticularis Michx.               | scoparia var. condensa Fernald  |
| castanea Wahl.                    | comosa Boott                    |
| Kneiskernii Dewey                 | brunnescens Poir.               |
| Deweyana Schw.                    | communis Bailey                 |
| Buxbaumii Wahl.                   | stipata Muhl.                   |
| viridula Michx.                   | gynandra Schw.                  |
| cryptolepis Mackenzie             | gracillima Schw.                |
| irregularis Schw.                 | hystericina Muhl.               |
| flava L.                          | flexuosa Muhl.                  |
| aenea Fernald                     | digitalis Willd.                |
| novae-angliae Schw.               | pallescent L.                   |
| annectans Bicknell                | vesicaria L.                    |
| leptonervia Fernald               | vesicaria var. jejuna Fernald   |
| Baileyi Britton                   | scabrata Schw.                  |
| aurea Nutt.                       | oligosperma Michx.              |
| angustior Mackenzie               | limosa L.                       |
| Bebbii Olney                      | pauperula Michx.                |
| pauciflora Lightf.                | lurida Wahl.                    |
| intumescens var. Fernaldii Bailey | retrorsa Schw.                  |
| lasiocarpa Ehrh.                  | strictior Dewey                 |
| interior Bailey                   | plantaginea Lam.                |
| cephalantha (Bailey) Bickn.       | projecta Mackenzie              |
| trisperma Dewey                   | Peckii E. C. Howe               |

**Cirsium arvense (L.) Scop.**

Along a roadside near Newcomb occurs a colony of plants of this species, doubtless formed from the growth of underground stems, in which all the flowers are pure white. It is quite possible that this has received a name. If so, I have not been able to locate it and for the purpose of record it may be designated as *forma albiflorum*, *forma nova*.

**Comandra livida** Richards.

Near the summit of Mount Marcy. *A. B. Brooks*, June 23.

This is not only an interesting addition to the list of arctic-alpine plants of the summit of Mount Marcy, but is also new to the state flora.

**Cornus canadensis** L., forma **elongata** (Peck) comb. nov.

*Cornus canadensis* var. *elongata* Peck, N. Y. State Mus. Bul. 150: 44. 1911

Averyville marsh, near North Elba. *Dr C. H. Peck*, September 14, 1911. Also collected by Doctor Peck at Sandlake, Rensselaer county, July 14, 1910 (type).

**Doellingeria umbellata** (Mill.) Nees

var. **pubens** (A. Gray) comb. nov.

*Aster umbellatus* var. *pubens* Gray, Syn. Fl., 1<sup>o</sup>: 107. 1884

The lower surfaces of the oblong-lanceolate leaves tomentulose-pubescent. Ausable river. *Dr C. H. Peck* (state herbarium). More common west of our borders.

**Aster nemoralis** Ait. f.

Frequent in a sphagnum bog on the border of Woodruff pond, Newcomb. *House* 7530, September 6.

This has been regarded by Hill (Vascular Flora of the Eastern Penobscot Region, Maine, 1919) as a "carolinian" plant. It is now known from five Adirondack localities in the counties of Essex, St Lawrence, Hamilton and Herkimer. Its peculiar distribution northward into the Canadian life zone makes it impossible to regard it as a typical carolinian plant, and in this respect it is like *Viola lanceolata* L., *Lycopodium inundatum* and a few other species.

**Heliopsis scabra** Dunal.

Moist roadside thicket near Newcomb. *House* 8452, August 3, 1921. Perhaps not native, as only a single colony was found.

**Lycopodium inundatum** L.

Common on the marshy shores of Lake Harris, Woodruff pond, Hewitt's pond and other localities in Newcomb. *House* 7333, July 15-30.

**Lycopodium tristachyum** Pursh

Dry woods near Newcomb. *House* 8465, August 3, 1921.

**Lysiella obtusata** (Pursh) Rydberg

Common in most of the mossy spruce swamps about Newcomb. *House* 7300, June 10, 1921, and in bloom sometimes as late as August 1st.

**Ophrys convallarioides** (Sw.) W. F. Wight

Frequent in mossy spruce swamps about Newcomb, and sometimes common. *House* 7307, June 3-10, 1921. Usually out of bloom by August 1st.

The following additional species of orchids were collected in the township of Newcomb:

*Ophrys cordata* L.  
*Corallorrhiza* *Corallorrhiza* (L.) Karst.  
 " *maculata* Raf.  
*Malaxis unifolia* Michx.  
*Cypripedium acaule* Ait.  
 " *reginae* Walt.  
*Gymnadeniopsis clavellata* (Michx.) Rydb.  
*Peramium ophicoides* (Fernald) Rydberg  
*Ibidium Romanzoffianum* (Cham.) House  
*Perularia flava* (L.) Farwell  
*Blephariglottis* *Blephariglottis* (L.) Rydberg.  
*Limnorchis hyperborea* (L.) Rydb.  
 " *dilatata* (Ait.) Rydb.  
*Limodorum tuberosum* L.  
*Pogonia ophioglossoides* (L.) Ker.  
*Peramium teselatum* (Lodd.) Heller  
*Lysias orbiculata* (Pursh) Rydb.  
*Liparis Loeselii* (L.) Richard

**Lonicera hirsuta** Eaton

Moist woods near Newcomb. *House* 7191, July 15-30.

**Poa saltuensis** Fernald & Wiegand

Moist shores of Lake Harris. *House* 8070, June 12, 1921.

**Calamagrostis Pickeringii** A. Gray

Marshy shores of Lake Harris. *House* 7384, July 15-30.

**Razoumofskyia pusilla** (Peck) Kuntze

Parasitic on limbs and twigs of black spruce (*Picea mariana*) in swamps near Newcomb. *House* 7186, July 15-30. A few young, red spruce trees (*Picea rubens*) were also found with the dwarf mistletoe parasitic upon them.

**Ranunculus sicaeformis** Mackenzie & Bush

This has the general appearance of *R. septentrionalis* Poir., as well as the habit of that species, but is brighter green in color. The early leaves have more rounded lobes and the summer foliage is cut into broader segments. The stems are densely hirsute with white spreading hairs, especially toward the base, and somewhat less so on the petioles. The leaves are quite markedly appressed

pubescent on both surfaces, more densely so beneath. The petals are obovate, 8-12 mm long and 6-10 mm wide. The immature akenes are punctate and with a nearly straight, ascending, tapering beak one-half as long as the body.

Marshy soil near Newcomb. *House 8050*, June 10, 1921.

### ***Senecio Robbinsii* Oakes**

Common in pastures and on cleared land especially east of Newcomb. *House 7292*, July 15-30.

### ***Senecio aureus* x *Robbinsii*, hyb. nov.**

This was at first taken to be *S. Robbinsii* with broad leaves. The plants are exactly intermediate in appearance between *S. aureus* and *S. Robbinsii*, the former growing in a bog adjacent to the colony of hybrid plants, and the latter common on a sandy slope above the bog. *S. Robbinsii* usually blooms much earlier than *S. aureus*, but not infrequently especially in this section of the State, the blossoming period of the two species overlaps, which was the case at the place and date where this hybrid colony was detected near Newcomb. *House 8013*, June 8, 1921.

### ***Solidago squarrosa* Muhl.**

Dry hillsides near Newcomb. *House 7547*, September 8, and Cascade lakes, North Elba. *House 7643*, September 16.

### ***Stellaria borealis* Bigel.**

Marsh near Newcomb. *House 8050*, June 10, 1921.

### ***Scirpus Torreyi* Olney**

Common in shallow water along the shores of Lake Harris. *House 7359*, August 1-15, 1921. Also observed in shallow water along the Hudson river below Newcomb, and at Hewitt's pond.

### ***Utricularia resupinata* Greene**

On the muddy shores of Lake Harris and Woodruff pond, near Newcomb. *House 7528*, August 10-15, 1921.

### ***Myriophyllum tenellum* Bigel.**

Muddy shores of Lake Harris, Newcomb. *House 8517*, August 8, 1921. Fairly common from August 3d to 15th, but before and after these dates (for 1921) difficult to find.

### ***Sanguisorba canadensis* L.**

Common on the marshy shores of Lake Harris. *House 7273*, August 1-15, 1921.

***Trientalis latifolia* Hook.**

Summit of Mount McIntyre. *Dr C. H. Peck* (state herbarium).

This specimen has been carefully compared with typical material of *T. latifolia* from western America, and no essential points of difference can be found. As the record rests, however, upon a single specimen, and from an exposed subalpine summit where owing to exposure and altitude the common eastern species might simulate the western species, it is hoped that additional collections of this plant from Mount McIntyre may be secured.

***Viola lanceolata* x *pallens*, *hyb. nov.***

This was taken at first for *V. primulifolia* because of its broad leaves. Further observations of it during 1921 showed that the petaliferous flowers were always sterile, the flower and its peduncle soon withering and never developing capsules. The leaves simulate those of the more southern *V. primulifolia* but are entirely smooth and in texture more like those of *V. pallens*.

Shore of Lake Harris near Newcomb, growing with *V. pallens* and *V. lanceolata*. *House 7254*, June 6-12, 1921; August 1-10, 1921.

***Woodsia ilvensis* (L.) R. Br.**

Rocks above Cascade lakes, North Elba. *House 7635*, September 16.

***Greene County******Carex spicata* Huds.**

Rocky woodlands near Catskill. *House 7836*, May 21, 1921. Usually referred to *C. muricata* in recent floras.

***Viola sagittata* Ait.**

Moist uplands field in clayey soil, 2 miles east of Catskill. *House 7828*, May 21, 1921.

This is several miles north of Saugerties where *V. sagittata* was once collected by Doctor Peck. It is to be noted that this collection is the typical glabrous slender form such as is found in the turfey meadows adjacent to the salt marshes of Long Island and southward.

***Aemnone virginiana* L. *forma rubrosepala*, *forma nova***

The rather small, thickened and somewhat leathery sepals strongly tinged with red on the upper surface, silky white beneath.

Cairo. *Leland S. Slater*, June 18, 1918 (type).

*Genesee County*

**Senecio aureus** x **pauperculus**, *hyb. nom. nov.*

*S. aureus* x *Balsamitae* Greenman, *Rhodora*, 10:69. 1808

Bergen swamp, Genesee county, *House* (state herbarium).

**Ranunculus alleghaniensis** Britton

Near LeRoy. *M. S. Baxter*, May 23, 1921. Also collected in the same vicinity by *E. P. Killip*.

**Valerianella chenopodifolia** (Pursh) DC.

Near LeRoy. *M. S. Baxter*, 5568, May 23, 1921.

*Hamilton County*

**Agastache urticifolia** (Benth.) Kuntze

Along roadsides near Wells. *Dr C. H. Peck* (N. Y. State Mus. Bul. 75, p. 22. 1904, as *A. scrophulariaefolia*). An examination of the specimens cited by Peck shows that they belong to the far western species. Peck points out the characteristic differences but either from lack of adequate literature or of authentic specimens for comparison, reported it as a form of *A. scrophulariaefolia*. It is probably an escape from cultivation, since as an ornamental plant it possesses considerable merit.

**Aster Tradescanti** L., *var. saxatilis* (Fernald) *comb. nov.*

*A. vimineus* *var. saxatilis* Fernald, *Rhodora*, 1:186. 1899

*A. saxatilis* Blanchard, *Am. Bot.*, 7:27. 1904

Racquette Lake, *C. H. Peck* (state herbarium)

Uncommon or rare in rocky situations in northern New York. Apparently more properly to be regarded as a low race or depauperate development of *A. Tradescanti*, than of *A. vimineus*.

**Carex abacta** Bailey

Common in the marshes along the outlet of Lake Pleasant. *House* 7487, August 12.

**Carex Baileyi** Britton

Common in moist or wet places about Speculator and Lake Pleasant. *House* 7505, August 13.

**Carex lenticularis** Michx.

Frequent on the shores of Lake Pleasant. *House* 7471, August 12-13.

**Carex viridula Michx.**

Common along the outlet of Lake Pleasant. *House 7488* August 12. Also less frequently along the shore of Lake Pleasant. In both places **Carex cryptolepis** Mackenzie (*no. 7484*) is an associated plant. Both here and at Lake Harris in Essex county search was made for forms intermediate between these two species, which by some authors are regarded as varieties of **C. Oederi**, native of the Old World, but no intermediate forms were found. The two are very distinct in color of foliage and in the character of the fruiting spikes, **C. cryptolepis** always being taller and paler green (yellowish green), and when the two grow associated **C. cryptolepis** matures its fruit 2 or 3 weeks earlier, but owing to differences in soil, moisture and exposure within short distances along some stretches of these Adirondack lake shores, the maturity of **C. viridula** often overlaps that of **C. cryptolepis**.

**Cyperus dentatus Torrey**

Common on the marshy shores of Lake Pleasant, and along the outlet of the lake. *House 7495*, August 12-13.

**Lycopodium inundatum L.**

Common on the moist and marshy shores of Lake Pleasant and less frequently along the outlet. *House 7481*, August 12-13.

Associated here, as at most Adirondack localities where observed, with *Drosera intermedia* Hayne, *Viola lanceolata* L. *Xyris caroliniana* Walt., *Spiraea tomentosa* L. *Oxycoccus macrocarpus* (Ait.) Pursh, an association of species duplicated with minor variations in places of similar soil conditions upon Long Island.

**Myriophyllum tenellum Bigelow**

Common in shallow water or emersed on muddy banks along the outlet of Lake Pleasant. *House 7489*, August 12.

**Lycopodium clavatum L., var. brevispicatum Peck**

Summit of Black Bear mountain, near Inlet. *House*, June 26, 1917. The original of this odd variety was collected by Peck on Wallface mountain.

**Panicularia septentrionalis (Hitche.) Bicknell**

Common in moist or wet sandy soil along the shore of Lake Pleasant, and also along the outlet of the lake, occasionally in shallow water. *House 7474*, August 12-13.

**Rubus permixtus** Blanchard

Frequent in open wet meadows and boggy places near Speculator. *House* 7459, August 13.

**Salix pedicellaris** Pursh

Frequent in open marshes near Speculator. *House* 7493, August 12-13.

**Sambucus racemosus** L., forma *laciniata* (Koch) comb. nov.

In woods near Indian Lake. *Dr C. H. Peck* (state herbarium, and 27th Rep't N. Y. State Mus. III. 1877, as *S. racemosa* var. *dissecta* Britton). Described by Koch, as *S. racemosa* var. *laciniata*.

**Scirpus Torreyi** Olney

Uncommon in shallow water along the outlet of Lake Pleasant. *House* 7503, August 12.

**Scirpus subterminalis** Torrey

Common in shallow water at the mouth of Cherry brook near Speculator on Lake Pleasant. *House* 7464, August 13.

**Sparganium diversifolium** Graebner

In marshy or wet places along the outlet of Lake Pleasant. *House*, August 12. *Sparganium angustifolium* Nutt. (no. 7483) was also collected in shallow water, and *Sparganium acaule* (Beeby) Rydberg (no. 7460), on muddy banks and in very shallow water along the outlet.

**Sanguisorba canadensis** L.

Infrequent along the outlet of Lake Pleasant. *House* 7452, August 13.

**Scirpus georgianus** Harper

Frequent in marshy places at Blue Mountain lake. *House* 7589, September 14.

**Rubus Randii** (Bailey) Rydberg

Thickets near Blue Mountain lake. *House* 7583, September 14.

**Spiraea tomentosa** L.

Infrequent and mostly of small size along the outlet of Lake Pleasant. *House* 7452, August 13. Recorded because not seen at any higher altitude (1800 feet) in the Adirondacks. Local at Newcomb, Essex county (1550 feet altitude).

***Viola lanceolata* L.**

Common in marshy places along the outlet of Lake Pleasant, and less frequent on the shores of the lake. *House* 7492, August 12.

***Xyris caroliniana* Walt.**

Common on the shores of Lake Pleasant, and less so along the outlet. *House* 7475, August 12-13.

*Herkimer County****Botrychium matricariae* (Schränk) Spreng.**

On moist shaded banks along the shore of Fourth lake. *House* 6721, August 10, 1919.

The bud within the base of the stem is clothed with a dense white silky pubescence. The spores were scarcely mature at this date even on the largest plants.

***Galeopsis Tetrahit* L.**

This naturalized plant is very common in recent clearings, cultivated soil and along roads throughout the Adirondack region. A note by Fernald and Wiegand (*Rhodora*, 12: 142. 1910), led to an examination of numerous specimens in Herkimer, Hamilton and Essex counties, all of which prove to be the var. *bifida* (Boenn.) Lejeune & Courtois (*Comp. Fl. Belg.*, 2: 241. 1831), as described by Fernald & Wiegand.

***Ilex bronxensis* Britton**

Common in marshes along Fourth lake. *House* 6709, August 6, 1919.

***Rubus strigosus* Michx., var. *heterolasius* (Fernald) comb. nov.**  
*R. Idaeus* var. *heterolasius* Fernald, *Rhodora*, : 97.

The new canes are like those in the variety *canadensis*, but the prickles are stout and broad based. Collected by *Dr C. H. Peck* at Big Moose Station (state herbarium).

*Jefferson County****Aster novae-angliae* L., forma *rosarius*, nom. nov.**

*Aster roseus* Desf. Cat. Hort. Par. ed. 3, 401. 1829. Not *A. roseus* Bieb., 1812

*A. novae-angliae* var. *roseus* DC.

Roadsides near Woodville. *House*, September 9, 1921.

A rather distinct form of the species with rosy or nearly red rays. Seen in several places in this part of Jefferson county and growing chiefly in drier soil than the typical species, and the plants lower with more spreading stems and smaller leaves.

*Echinochloa Walteri* (Pursh) Nash

In marshes along the shore of Lake Ontario near Woodville.  
House 8654, September 9-11, 1921.

*Ranunculus longirostris* Godr.

Common in shallow water in the inclosed bays or lagoons back of the sand dunes along the east shore of Lake Ontario near Woodville. House 8156, June 22, 1921.

*Carex Sprengelii* Dewey

On the highest parts of the wooded sand dunes, under white pines, near Woodville. House 8187, June 23, 1921.

Among the many aquatic and semiaquatic plants collected at Pierrepont pond, near Woodville, on the shore of Lake Ontario during 1921, the following are worthy of record:

*Panicularia borealis* Nash  
" *grandis* (S. Wats.) Nash.  
" *laxa* Scribn.

*Zizania aquatica* L.  
" *palustris* L.

*Sporobolus cryptandrus* (Torr.) A. Gray

*Homalocenchrus oryzoides* (L.) Poll.

*Phalaris arundinacea* L.

*Festuea elatior* L.

*Cinna arundinacea* L.

*Scirpus fluviatilis* (Torr.) A. Gray

" *americanus* Pers.

" *validus* Vahl

" *cyperinus* var. *pelius* Fernald

" *Smithii* A. Gray

*Eleocharis palustris* var. *major* Sonder

*Carex substricta* (Kukern.) Mackenzie

*Potamogeton natans* L.

" *perfoliatus* L.

" *amplifolius* Tuckerm.

" *americanus* C. & S.

" *heterophyllus* Schreb.

" *pusillus* L.

" *diversifolius* Raf.

" *filiformis* Pers.

" *pectinatus* L.

*Ranunculus longirostris* Godr.

*Radicula hispida* (Desv.) Britton

*Triglochin maritima* L.

*Sagittaria rigida* Pursh

" *variabilis* Willd.

*Nymphaea advena* Soland.

" *microphylla* Pers.

" *rubrodisca* (Morong) Greene

*Castalia tuberosa* Paine

*Juncus balticus* L.

*Comarum palustre* L., var. *villosum* Pers.

*Philotria Nuttallii* (Planch.) Rydberg

*Myriophyllum heterophyllum* Michx.

*Peltandra virginica* (L.) Raf.

*Najas flexilis* (Willd.) Rost. & Schmidt.

*Valisneria spiralis* L.

*Polygonum Hydropiper* L.  
*Rumex brittanicus* L.  
*Iris versicolor* L.  
*Lysimachia thrysiflora* L.  
*Utricularia macorrhiza* LeConte  
*Scutellaria galericulata* L.  
*Typha angustifolia* L.  
*Spirodella polyrhiza* (L.) Schleid.  
*Sparganium eurycarpum* Engelm.  
*Alisma subcordatum* Raf.

### *Cornus Baileyi* Coulter & Evans

Thickets on the sand dunes along Lake Ontario near Woodville.  
*House* 8460, June 24, 1921.

### *Lathyrus palustris* L.

Common in the meadows and marshes along the shore of Lake Ontario, near Woodville. *House* 8172, June 23-24, 1921.

*L. myrtifolius* Muhl. (no. 8173) with its somewhat glaucous foliage, practically wingless stems and smaller flowers, stands out with great distinctness, and no intermediate forms were observed. In *L. myrtifolius*, the lobes of the calyx are always shorter than the calyx tube, the three lower lobes being triangular-ovate to triangular-lanceolate, acuminate and tapering evenly from the base to the apex. In *L. palustris*, the three lower calyx lobes are equal to or longer than the tube and broadly lanceolate in shape, often tinged with purple. All parts of the flower are uniformly larger than in *L. myrtifolius* which seemingly can not be regarded as a variety of *L. palustris*.

In *L. palustris* var. *linearifolius* Ser. (no. 8174), the calyx lobes usually average shorter in length and approach the shape of those in *L. myrtifolius*, but the narrow leaflets without any glaucous indument, and the winged stems relates it closely to *L. palustris*, and intermediate forms are not rare.

In the specimens here collected the pods of the var. *linearifolius* are taper pointed in nearly a straight line from the dorsal suture of the pod, while in *L. palustris*, the pods taper about evenly from both the dorsal and ventral sutures to an elongated tip. Further observations in other localities will be necessary to determine whether this is a character of value or not.

### *Comarum palustre* L., var. *villosum* Pers.

(*Potentilla palustris* var. *villosa* Lehm.)

Marshes along the shore of Lake Ontario, near Woodville. *House* 8196, June 23, 1921.

The very dense, closely appressed silky indument of the whole plant excepting the petals is very conspicuous and renders the varietal name rather inappropriate. The petioles and peduncles are conspicuously glandular as in the typical form.

**Eleocharis palustris** L., var. **major** Sonder

(Fl. Hamb. 22. 1851)

Common in the shallow water of the bays and inlets along the shore of Lake Ontario near Woodville. *House 8128.*

This is the variety *vignensis* Bailey, and in its extreme development presents a marked contrast in appearance to the typical *E. palustris*. Intermediate forms, however, while not common, are occasionally found.

**Juncus Dudleyi** Wiegand

Sandy soil along Lake Ontario, near Woodville. *House 8169, June 23, 1921.*

**Carex radiata** (Wahl.) Small

Moist woods near Woodville. *House 8209, June 23, 1921.*

**Nymphaea rubrodisca** (Morong) Greene

Ponds back of the sand dunes along the shore of Lake Ontario near Woodville. *House 8157, June 23, 1921.* *N. advena* and *N. microphylla* are also common.

**Panicum Lindheimeri** Nash

Sandy fields along Lake Ontario near Woodville. *House 8243, June 23, 1921.*

**Festuca rubra** L.

In sand and on the sand dunes, along the shore of Lake Ontario, near Woodville. *House 8200, June 23, 1921.*

*Lewis County***Carex vaginata** Tausch

In deep shade of spruce trees growing in wet moss, Bonaparte swamp. *House 7082, June 22.*

**Carex gynocrates** Wormsk.

In sphagnum, usually in openings of the cedar and spruce growth, Bonaparte swamp. *House 7079, June 22.*

**Carex exilis** Dewey

Very common in the extensive bog at the north end of Onjebonge pond, a few miles north of Natural Bridge. *House 7138, June 24.* Other plants conspicuous at this season in this bog were: *Eriophorum callitrix* Cham. *Eriophorum alpinum* L., *Eriophorum tenellum* Roth, *Carex pauciflora* Lightf. and *Arethusa bulbosa* L.

**Lycopodium inundatum L.**

Common on the sphagnum bog at Onjebonge pond. *House 7138*, June 24.

**Symphoricarpos racemosus Michx.**

On exposed ledges. Grand island in Lake Bonaparte. *House 7101*, June 23.

**Minuartia Michauxii (Fenzl.) House**

(*Alsine stricta* Michx.)

Common on rocky banks about Lake Bonaparte. *House 6267*, June 23.

**Juncus Dudleyi Wiegand**

Bonaparte swamp. *House 7058*, June 23. Determined by Dr F. V. Coville, 1921.

**Linnaea americana** Forbes, forma *candicans*, forma *nova*.

Corollas pure white instead of the usual pink color. On Grand island in Lake Bonaparte there is a large colony of the twin flower in which all the flowers have pure white corollas. *House 7106*, June 23.

**Arctostaphylos Uva ursi (L.) Spreng.**

Common on Grand island, Lake Bonaparte. *House 7100*, June 23. Not common elsewhere about Lake Bonaparte, doubtless owing in large part to the extensive and destructive fires which followed lumbering operations 25 to 40 years ago. The plants of the bearberry have smooth and glabrous branches and twigs at this station, while all other specimens from New York which have been examined have the branchlets "canescent-tomentulose, not viscid, the minute tomentum persistent," as described by Fernald & Macbride (*Rhodora*, 16: 212. 1914) for their variety *coactilis*. The geographical value of this variety is doubtful, however, since in the state herbarium there is a specimen from central Europe which is an exact match for the variety *coactilis*.

**Viola Selkirkii Pursh**

Common in moist woods near Lake Bonaparte. *House 7043*, June 22.

**Viola rugulosa Greene**

A plant much resembling *V. canadensis*, but stouter and more strict, leaves broader and rough pubescent above, notably pubescent beneath, hirtellous on the veins as well as on the stems and petioles.

Harrisville, *Peck, 1904* (state herbarium).

The occurrence of this western species in northern New York is not so surprising as might at first appear, since quite a number of western species have been found to have the eastern limits of their distribution in the Black river basin of Jefferson and Lewis counties, and along the St Lawrence.

***Linaria minor* (L.) Desf.**

Along railroad tracks near Lake Bonaparte. *House 7040*, June 22.

***Anemone cylindrica* A. Gray**

Occasional in rocky or stony fields north of Natural Bridge. *House 7151*, June 24.

***Salix serissima* Fernald**

Common in the southern end of Bonaparte swamp. *House 7108*, June 23.

***Salix balsamifera* Barratt**

(*S. pyrifolia* Anders.)

Several large individuals of this rather rare willow were observed in Bonaparte swamp. Not in flower or fruit at this date (June 23d) and only leaf specimens were taken for identification.

***Thelypteris clintoniana* (D. C. Eaton) House**

(*Dryopteris clintoniana* Dowell)

Frequent in Bonaparte swamp. *House 7044*, June 23.

***Carex substricta* (Kukenth.) Mackenzie**

(*C. aquatalis*, N. Y. Reports)

Frequent in marshy places in Bonaparte swamp and on the shore of Lake Bonaparte. *House 7084*, June 22-23.

***Carex leptoneuria* Fernald**

Common in moist woodlands about Lake Bonaparte. *House 7080*, June 22.

***Rosa blanda* Ait.**

Common on exposed ledges on Grand island in Lake Bonaparte. *House 7104*, June 23.

***Oxalis Brittonae* Small**

In dry fields near Lake Bonaparte. *House 7041*, June 22.

*Livingston County***Polygonum buxiforme** Small

Near the "salt mines," Griegsville. *M. S. Baxter 5511*, August 14, 1921. *Polygonum exsertum* Small, also collected at the same place by Mr Baxter (*no. 5512*).

Both of these species commonly regarded as exclusively maritime, apparently occur inland in saline localities. *P. buxiforme* has been collected along the Hudson as far north as near Albany, and also on Oneida lake (*House*).

**Panicularia melicaria** (Michx.) Hitchc.

Shady woods near Canadice. *M. S. Baxter 5405*, August 28, 1921 (about 1900 feet altitude).

This is one of the common species of woodland grasses in northern New York. The records for western New York are few. Paine (Cat. 169, 1865) merely records it from "western New York" upon the authority of Gray. Holzer (Proc. Rochester Acad., 3: 128. 1896) reports it as rare in Monroe county. There is a specimen in the Beck herbarium collected by Gray at Bridgewater, and the writer has collected it at Constantia, Oswego county.

*Madison County***Botrychium obliquum** Muhl., forma *dissectum* (Spreng.) comb. nov.

*B. dissectum* Spreng. Anleit., 3: 172. 1804.

*B. ternatum* var. *dissectum* D. C. Eaton, N. Am. Ferns, 1: 150. 1878

*B. obliquum* var. *dissectum* Prantl. Jahrb. Bot. Gard. Berlin, 3: 342. 1884

Glenwood, near Oneida. *House*.

C. J. Chamberlain (Bot. Gaz., 70: 385-398. 1920) suggests that this is a sterile mutant of *B. obliquum*, which seems quite probable, as mature spores capable of germination apparently are never developed. From the point of view of nomenclatorial rules it is unfortunate that *dissectum* was described 6 years earlier than *B. obliquum*. That it should be taken up as the name for the typical species (*cf.* Fernald, *Rhodora*, 23: 151. 1920) is most incongruous.

**Carex cryptolepis** Mackenzie

Marly wet shores of Woodman's pond, near Hamilton. *House 7675*, October 19. The date of the collection is interesting as showing the ability of some species of *Carex* for continuous development throughout the season.

**Carex castanea** Wahl.

Thin but wet woods near Peterboro. *House 8324*, June 29, 1921  
Plants several days past maturity.

**Carex Deweyana** Schw.

Wet woods near Peterboro. *House* 8323, June 29, 1921.

**Carex prasina** Wahl.

Marshy places near Oneida. *House* 8378, July 4, 1921.

**Carex radiata** (Wahl.) Small

Swamp south of Morrisville. *House* 8712, September 17, 1921. Maturing late owing to ground having been disturbed in grading an adjacent roadway.

**Cypripedium reginae** Walt., forma **album** (Ait.) comb. nov.

*Cypripedium album* Ait. Hort. Kew., 3: 303. 1789

Castle swamp, Oneida. *House*.

In central New York the showy lady's-slipper occasionally occurs with all parts of the flower pure white. Also in Bonaparte swamp, Lewis county. *Peck* (N. Y. State Mus. Bul. 94, p. 38. 1905)

**Polygala paucifolia** Willd.

Low woods near Pecksport. *House* 6927, May 26. This is not a rare plant throughout most sections of the State but has not been previously noticed in Madison county.

**Linum sulcatum** Riddell

In old fields on a dry sandy hillside near Oneida. *House* 7671, October 18. Perhaps naturalized from farther west.

**Nepeta hederacea** (L.) Trev., var. **parviflora**

(Benth.) Druce

*Glecoma heterophylla* Opiz, *Natural.*, 7: 61. 1824

*N. Glecoma* var. *parviflora* Benth. in *Lab. Gen. & Sp.*, 485. 1834

*G. intermedia* Schrader; Benth. in *DC. Prodr.*, 12: 391. 1848

Corollas scarcely more than twice as long as the calyces, which are shorter than in the typical form of the species. Leaves also smaller and less pubescent, the stems glabrous or but minutely pubescent.

Edge of woodlands near Oneida. *H. D. House*, June 5, 1916. Native of Europe, and well established. Doubtless not rare but easily overlooked or taken for the common form of the species. In *Glecoma* this would be designated as ***Glecoma hederacea* var. *parviflora* (Benth.) comb. nov.**

**Equisetum praealtum Raf.**

Low woods near Oneida. *House*, May 15, 1918. Distributed as *E. laevigatum* A. Br.

According to Dr J. H. Schaffner, true *E. hyemale* L. does not occur in the eastern United States, most of the specimens so referred to in the past belonging to *E. praealtum* Raf. Few species are so variable in size and habit as this one, the specimen cited above being nearest typical of any seen from this State; 6 to 25 cm tall and stems 6 to 12 mm thick.

*Monroe County***Agropyron pseudorepens Scribn. & Smith**

Along railroad tracks near East Rochester. *M. S. Baxter* 1002, August 5. Apparently adventive from the west.

**Leptoloma cognatum (Schultes) Chase**

Along railroad tracks near Despatch. *D. M. White*, August 22. Adventive from the west and now well established and rapidly spreading in waste and sandy soil in many sections of the State.

**Carex Bebbii Olney**

A common sedge in Monroe county, represented by collections at Round pond (*House*), Irondequoit bay (*House*), and at Bergen swamp, Genesee county (*House*).

**Carex convoluta Mackenzie**

Palmer's glen, Rochester. *House*, July 5, 1917. Other *Carex* collected on this date at Palmer's glen are:

*Carex cephalophora* Muhl.

*Carex blanda* Dewey

*Carex communis* Bailey

*Carex anceps* Muhl.

*Carex laxiculmis* Schw.

**Carex trisperma Dewey, var. Billingsii Knight**

Mendon bog. *House*, July 5, 1917.

**Carex normalis Mackenzie**

Churchville. *House*, July 4, 1917.

**Carex tetanica Schk.**

Near Mendon. *House*, July 2, 1917.

**Carex Sartwellii Dewey**

Mendon ponds. *M. S. Baxter* 5488, June 19, 1921. A very rare sedge which Mr Baxter has also rediscovered at the original station (Junius marsh).

**Scirpus lineatus Michx.**

Low ground near Pittsford. *House*, July 5, 1917.

**Paspalum pubescens Muhl., var. Muhlenbergii (Nash) comb. nov.**

(*P. Muhlenbergii* Nash, in Britton, Man. 75, 1901)

Bushnell's Basin. *Baxter*, September 1910. Perinton, *Baxter*, September 15, 1910. Fisher's, Ontario county, *Baxter*, September 15, 1914.

Although extreme forms appear quite distinct, the so-called *P. Muhlenbergii* merges freely into typical *P. pubescens*. More or less distinct plants which can be referred to this variety are cited above. In southern New York intermediate forms are more frequent and difficult to place.

**Chaetochloa viridis (L.) Scribn., var. Weinmanni (R. & S.) comb. nov.**

*Setaria Weinmanni* R. & S. Syst., 2: 490. 1817

*S. viridis* var. *Weinmanni* Brand, in Koch, Syn. Ed. 3, 2690. 1905

A somewhat depressed or spreading plant with leaves mainly less than 5 mm wide, the slender spikes rarely exceeding 5 mm in thickness.

Brighton. *C. M. Booth*, June 25, 1894 (state herbarium).

**Froelichia gracilis Moq.**

Along railroad tracks at Despatch. *D. M. White*, August 22. Adventive from the western states.

**Boehmeria Drummondiana Weddell**

(*B. cylindrica* var. *scabra* Porter)

In woods near Mendon. *M. S. Baxter* 1008, August 8.

**Euphorbia dentata Michx.**

Along railroad tracks at Despatch. *D. M. White*, August 22. Adventive from the western states. (*Poinsettia dentata* Small.)

**Helianthus subrhomboideus Rydberg**

Along railroad tracks at Despatch. *D. M. White*, August 22. Adventive from the western states.

**Ranunculus hispidus Muhl.**

On dry banks at Irondequoit bay. *D. M. White* 70, March 16, 1917. Bushnells. *M. S. Baxter* 5414, May 8, 1921.

***Gaura coccinea* Pursh**

Near Rochester. *M. S. Baxter* 1007, August 5. First collected near Rochester by Mr Baxter in 1906 (N. Y. State Mus. Bul. 116, p. 24. 1907), and with an interval of 13 years this species appears to be well established in our flora.

***Actaea alba* (L.) Mill., forma *rubrocarpa* Killip, forma nov.**

Pittsford. *E. P. Killip* (state herbarium).

Plant resembling *A. alba*, and like that species, having the berries on thickened pedicels, which are reddish at maturity. The berries instead of being white as in the typical form of the species are dark red.

A similar plant was reported from Cattaraugus county by Kneiskern (Torrey, Fl. N. Y., 1: 22. 1843).

***Aster novae-angliae* L., forma *geneseensis*, forma nova**

Ray-flowers white. Near Rochester. *Mrs H. G. Pierce*, 1904. (Also reported in the Roch. Acad. Sci. Proc., 5: 20. 1910.)

***Viola sororia* Willd., forma *Beckwithae*, forma nova**

Petals all white. Rochester. *Florence Beckwith* (state herbarium). Also reported from Staten Island, Dowell (Torr. Club Bul., 37: 167. 1910).

***Lepidium perfoliatum* L.**

Along railroad tracks at Pittsford. *F. S. Boughton*, July 10, 1921. Communicated by *M. S. Baxter* as no. 5647. Native of Europe, and apparently not previously reported from New York.

***Thalictrum revolutum* DC.**

East side of Irondequoit bay. *M. S. Baxter* 5609, May 22, 1921.

***Sporobolus asper* (Michx.) Kunth**

Along railroad tracks, East Rochester. *M. S. Baxter* 5501, September 15, 1921.

***Corispermum hyssopifolium* L.**

Along railroad tracks, East Rochester. *M. S. Baxter* 5499, September 15, 1921.

***Eleocharis interstincta* (Vahl) R. & S.**

Mendon ponds. *Warren Matthews*, July 24, 1921. Communicated by Mr Baxter as no. 5406. This constitutes the first authentic record which we have for this rare species in New York State.

**Parsonsia petiolata (L.) Rusby**

Mendon. *Warren Matthews*, July 29, 1921.

A plant which prefers moist meadows and which is undoubtedly spreading northward in this State, as Clinton (19th Regents Report, 204. 1866), reports it only from New York Island, and later (38th Rep't N. Y. State Museum 107. 1885) from Catskill. Paine (Cat. 80. 1865) reports it from northern New York, on the authority of Stevenson & Kneiskern, a report apparently borrowed from Torrey's flora (1843). This might be Washington county (where collected by Burnham, 46th Rep't N. Y. State Mus. 43. 1893), or an outlying station now unknown. Very common at Saugerties, Ulster county, *House 8720*, October 8, 1921.

**Arctium minus Schk.**

A form with pure white flowers has been collected near Rochester by *Florence Beckwith* (Herb. Rochester Acad. Sci. & Proc., 5: 98. 1917), and which may be designated as forma **leucocephalum** forma nova.

**Sambucus canadensis L.**

The form of this species collected near Rochester by *John Dunbar*, with dark yellow fruit, and preserved in the herbarium of the Rochester Acad. of Sciences, may be designated as forma **atroflavula** forma nova. (Proc. Roch. Acad. Sci., 5: 18. 1910). Likewise the form of *Sambucus racemosa* L. with yellow fruit, also collected near Rochester by Mr Dunbar may be designated as forma **xanthocarpa** forma nova.

*Oneida County***Carex leucorum Willd.**

Common in sandy fields north of New London. *House 6099*, June 4, 1919. Commonly regarded as a variety of *C. pennsylvanicum* Lam.

**Carex tonsa (Fernald) Bicknell**

Sandy fields north of New London. *House 6100*, June 4, 1919.

**Carex rugosperma Mackenzie**

Dry fields near North Bay. *House 6324*, June 18, 1919.

**Carex laevivaginata (Kukenth.) Mackenzie**

Collected near Verona several years ago by Dr C. H. Peck (state herbarium, as *C. stipata* var. *crassicutata*, in part). Also collected by Doctor Peck at Cedarville, Herkimer county (as var. *subsecuta*). Castle swamp, Madison county. *House 5898*, June 27, 1915.

**Carex Howei Mackenzie**

Deep swamps near Clayville. *House*, June 23, 1917. Also at Mud pond, near Zurich, Wayne county. *House*, July 2, 1917.

**Carex angustior Mackenzie**

Near Taberg. *House*, June 22, 1917.

**Carex incompta Bicknell**

Low woods near Sylvan Beach. *House*, June 17, 1918. Also collected at Hannibal, Oswego county, *House* 5597, June 27, 1914; Kasoag, Oswego county, *House*, June 21, 1918, and in Bergen swamp, Genesee county, *G. W. Clinton* (state herbarium).

**Carex rosaeoides E. C. Howe**

Sylvan Beach. *House*, June 8, 1914.

**Lycopodium clavatum L., var. megastachyon Fernald & Bissell**  
(var. *monostachyon* N. Y. Reports, not Grev. & Hook.)

New London. *House*, July 15, 1918.

**Ophioglossum vulgatum L., forma pusillum (Raf.) comb. nov.**

*O. pusillum* Raf. in Desv. Jour. Bot. II., 4: 273. 1814. Not Nutt. 1818  
*O. Grayi* Beck, Bot. 458. 1833

Depressions in sterile, turfy, sandy soil near the site of the old Fort Bull west of Rome. *House*, July 20, 1918.

Typical plants are often not more than 5 or 6 cm in height, but fertile, the sterile blade frequently less than half an inch long and less than one-fourth of an inch wide. Purely a starved or depauperate form and perhaps not worth any systematic recognition.

**Lycopodium complanatum L., var. flabelliforme Fernald, forma Wibbei (Haberer) comb. nov.**

*L. complanatum* var. *Wibbei* Haberer, Rhodora, 6: 162. 1904

Differing from the typical condition of the variety *flabelliforme*, by the peduncles having each a single strobile. Near Utica, *Haberer*.

**Echinochloa Crusgalli (L.) Beauv., var. Michauxii, nom. nov.**

*Panicum muricatum* Michx. Fl. Bor. Am., 1: 47. 1803. Not Retz  
*Echinochloa muricata* Fernald, Rhodora, 17: 106. 1915  
*E. crusgalli* var. *muricata* Farwell, Rep't Mich. Acad. Sci., 21: 350. 1919

Sylvan Beach. *House*, September 18, 1916.

Common in low grounds, especially about Lake Ontario, Oneida lake and other localities in the Ontario lowlands and the St Lawrence basin, where it appears to represent an indigenous or native form of the European *E. crusgalli*. Has also been collected by Peck along the Hudson river near Albany.

*Eleocharis reclinata* Kunth, Enum. Pl. 2: 143. 1837.

*Scirpus intermedius* Muhl. Gram. 31. 1817. Not Thuill. 1799, nor Poir. 1804

*Eleocharis intermedia* Schultes, Mant., 2: 91. 1824

*Scirpus reclinatus* Beyr., in Kunth, l. c.

var. *Habereri* (Fernald) comb. nov.

*E. intermedia* var. *Habereri* Fernald, Rhodora, 8: 130. 1906

Common on the sandy shores of Oneida lake.

*Juncus inflexus* L. (*J. glaucus* Ehrh.)

Growing in dense round clumps, 1 to 3 feet broad, on springy hillsides along and adjacent to the Willanoa creek, near Waterville, town of Sangerfield. House, August 18, 1917. Determined by F. V. Coville.

Native of Europe, where widely distributed. Not previously reported from America. It is perhaps introduced at the above locality, although if so, the introduction must have occurred many years ago, as the plants are numerous and thoroughly at home, occupying quite an extent of sloping boggy or springy soil which has apparently never been under cultivation, but has been used for pasturage at various times.

*Rosa rubifolia* R. Br.

Open swampy ground east of Oneida. House 6446, July 11, 1919.

Apparently native, and distinguished from *R. setigera* Michx. by its pale, almost white, velvety under surfaces of the leaves.

*Oxalis Brittonae* Small

Dry fields in sandy soil, north of Taberg. House 6140, June 6, 1919.

*Oxalis oneidica*, sp. nov.

Stems erect, but more or less decumbent at the base, 5-15 cm high, arising from short or occasionally elongated rootstocks; densely strigulose and quite slender; foliage grayish with a very fine, closely appressed indument; leaflets three, blades 8-12 mm wide, not appreciably ciliate; peduncles longer than the petioles, rarely overtopping the stem and its branches, two-flowered; flowers erect, the pedicels appressed-pubescent and refracted in fruit; sepals oblong-lanceolate,

acute, 2.5–3.5 mm long, half as broad; petals pale yellow, 8–10 mm long, obcordate or notched; filaments glabrous; capsules columnar, 12–15 mm long, rather abruptly pointed at the apex and densely appressed-pubescent.

In dry sterile rocky and sandy fields. Taberg, *H. D. House* 6140, June 5, 1919 (type in the herbarium of the New York State Museum). Monroe county, *E. K. Killip* (herb. Rochester Acad. Sciences).

Closely related to *Xanthoxalis stricta*, as described in the North American Flora, but differs chiefly in its uniform dense grayish indument of fine appressed hairs, which extends to all parts of the plant except the petals and filaments.

*Dentaria diphylla* x *maxima* Haberer, *hyb. nov.*

The rootstocks are slightly constricted but not distinctly articulated; leaves three-foliate, the cauline ones two–three in number and more or less remote, rarely subopposite, more sharply toothed than in *D. diphylla*, otherwise resembling *D. maxima*.

Near Utica, *Haberer* (Type, in herb. N. Y. State Museum). Also collected near Oneida and Chittenango Falls, Madison county, *House*.

*Dentaria laciniata* x *maxima* Haberer, *hyb. nov.*

Growing with *D. laciniata* and *D. maxima*, and presenting all the appearance of being intermediate between the two species. Deerfield, Oneida county, *Haberer* (Type). Chittenango Falls, Madison county, *House*.

These plants correspond with the description of *D. incisifolia* Eames (Gray's Man. Ed. 7, 434. 1908). The report of *D. heterophylla* Nutt. by Paine (Cat. Pl. Oneida Co. 60. 1865) is probably based upon this hybrid, collected by Haberer at the locality cited by Paine. Typical *D. heterophylla* Nutt., is unknown in central New York.

*Dentaria laciniata* x *diphylla*, *hyb. nov.*

Locally common in several localities in Oneida county and other central New York towns. *D. laciniata* blooms several days to two weeks earlier than *D. diphylla* where the two species grow together, but often the blossoming of the two species overlaps. The hybrid is intermediate in leaf and root characters, and more easily recognized than either of the two *Dentaria* hybrids above mentioned. It appears to correspond to the description of *D. anomala* Eames (Rhodora, 5: 217. 1903) although authentic specimens of that have not been seen. The type of this hybrid may be represented by a specimen collected near Oneida. *H. D. House* 6898, May 22.

**Ibidium cernuum** (L.) House, var. **ochroleucum** (Rydb.) comb. nov.

**Gyrostachys ochroleuca** Rydb., in Britton, Man. 300. 1901

Differing from the ordinary form of the species by its greenish yellow or creamy white flowers and longer floral bracts. Intermediate forms, however, are not unusual. The typical forms of *I. cernuum* are confined to bogs or their borders, while the var. *ochroleucum* occurs more frequently in pastures and on grassy slopes. Both are common in Oneida county.

**Blepharoglottis Blephariglottis** (Willd.) Rydb. var. **halopetala** (Lindl.) comb. nov.

**Platanthera halopetala** Lindl. Gen. & Sp. Orch. 291. 1830-40

A rare variety with narrower petals and the toothing of the lip obsolete, the lip less fringed or subentire. North pond near Boonville, Oneida county, from whence it was also reported many years ago by Paine.

**Polygala polygama** Walt., forma **albiflora**, forma nova

Corollas white. Sand plains north of New London. House.

### **Verbascum Lychnitis** L.

In sandy fields about the eastern end of Oneida lake, this European species has long been a familiar sight. Occasionally plants are seen with white instead of yellow corollas, and these representing *V. album* Mill. (Gard. Dict. Ed. 8, No. 3, 1768) may be designated as forma **album** (Miller) comb. nov.

### **Verbascum Blattaria** L.

The Moth Mullein is one of the common naturalized plants in the sandy fields east of Oneida lake, and as elsewhere in the State individuals are occasionally seen with white corollas. This was described by G. Don (Gen. Syst., 4: 497. 1838) as var. **albiflorum**, but may more properly be recorded here as forma **albiflorum** (G. Don) comb. nov.

**Solidago graminifolia** (L.) Salisb., var. **galetora** (Greene) comb. nov.

**Euthamia galetorum** Greene, Leaflets, 2: 151. 1911

Stems mostly simple, with a narrow corymbose inflorescence of several or few heads; plant entirely glabrous; leaves shining green

when fresh, with a suggestion of succulency (as described by Greene), 3-7 cm long, 5-9 mm wide, acute or acuminate, but without a distinctly attenuate apex, broadest near the base which is abruptly narrowed to an obtuse or rounded sessile base.

In bogs and on boggy shores of lakes and ponds. Common on the north and south shores of Oneida lake, about lakes and ponds in the Adirondacks, and locally elsewhere in the St Lawrence basin and the region west of the Adirondacks.

*Doellingeria umbellata* (Mill.) Nees, var. *oneidica*, var. nov.

Leaves firmer in texture than in the typical species, scarcely paler beneath, only the branches of the small, compact inflorescence pubescent; upper leaves conspicuously reduced and linear-lanceolate; those directly beneath the inflorescence often but 1 to 3 cm long and strongly ascending; pappus white.

Long lake, Oneida county, *House*. Type.

*Blephilia hirsuta* (Pursh) Torrey forma *albiflora*, forma nova  
Corollas white. Taberg. *C. H. Peck* (state herbarium).

*Viola pedata* L., var. *lineariloba* DC. forma *alba* (Thurber)  
comb. nov.

*Viola pedata* var. *alba* Thurber, Torr. Club Bul., 1:20. 1870

The type of this form is from Flushing, Long Island (*Allen*). It is also reported from Suffolk county, *Coles* (Torr. Club Bul., 2: 23. 1871) and from the pine plains north of Rome, Oneida county, *Paine* (Torr. Club Bul., 1: 22. 1870), where it was again observed by the writer in 1920. Britton (Torr. Club Bul., 17: 23. 1890) makes it a form of *V. pedata*, but all these white-flowered forms from New York appear to belong to the var. *lineariloba* DC.

*Panicum aculeatum* Hitchc. & Chase

Sandy thickets along the shore of Oneida lake, near Syfvan Beach.  
*House* 8140, June 20, 1921.

*Carex Frankii* Kunth

In a small marshy depression in a pasture along edge of woods, east of Oneida. *H. D. House*, Sept. 1, 1918. (Determined by Mackenzie). Mistaken at the time for poor specimens of *C. Baileyi* Britton. The pasture is continuously occupied by cattle, and another search in the autumn of 1921 failed to reveal any additional specimens.

**Origanum vulgare L.**

A form with white flowers occurs near Trenton Falls, *C. H. Peck* (state herbarium), and may be designated as *forma albiflorum forma nova*, although it may have already received a name in European literature. Doctor Peck has also collected the same form at Phoenicia, Ulster county.

**Equisetum laevigatum A. Br.**

Sandy shores of Oneida lake, Sylvan Beach. *House 5450*, June 5, 1914.

This has been previously collected in this region and reported as *E. hyemale intermedium* A. A. Eaton, namely, sand dunes at head of Oneida lake, Vienna (township). *Haberer 1950; 1950a and 1950c*, June 22, 1904. Doctor Peck has also collected the same species in the sandy plains of Albany county at Karner.

Another one of the collections by *Haberer (no. 1950c)* has one to six short branches at each of the upper nodes, sometimes these bearing small or reduced strobili. It may be designated with Doctor *Haberer's* herbarium name which accompanies the specimen, namely, *E. laevigatum forma proliferum Haberer, forma nova.* (*E. hyemale intermedium forma proliferum Haberer, in herb.*)

**Onondaga County**

**Botrychium Lunaria L. var. onondagense** (Underw.) comb. nov.

*B. onondagense* Underw. Torr. Club Bul., 30: 47. 1903

Renewed examination of this fern, apparently confined to Onondaga county, convinces the writer that it is merely a lax variety of *B. Lunaria*, with smaller, more distant and less lunate segments to the sterile leaf-blade. I am also inclined to regard *B. tenebrosum* A. A. Eaton as an extreme departure of *B. Lunaria*.

**Cypripedium acaule Ait., forma albiflorum, forma nova**

Flowers pure white. Reported from several localities. Type from Baldwinsville, Onondaga county, *Rev. W. H. Beauchamp* (state herbarium). Cooperstown, *J. A. Paine* (Cat. 139. 1865). Staten Island, *Heylyn* (Torr. Club Bul., 22: 462. 1895).

**Limodorum tuberosum L., forma albiflorum** (Britton) comb. nov.

*Calopogon tuberosus forma albiflora* Britton, Torr. Club Bul., 17: 125. 1890

Cicero swamp. *Mrs M. O. Rust* (Torr. Club Bul., 10: 67. 1883). Near Syracuse. *Mrs M. C. Still* (35th Rep't N. Y. State Museum 146. 1884). Bergen swamp, Genesee county, and other localities.

*Aquilegia canadensis* L., forma *albiflora*, forma nova

All parts of the corollas pure white. Near Syracuse. Mrs L. L. H. Goodrich (state herbarium).

*Geranium maculatum* L., forma *albiflorum* (Raf.) comb. nov.

*G. maculatum* var. *albiflorum* Raf. Med. Fl., 1: 217. 1828

Corollas white. Syracuse, Mrs M. O. Rust (state herbarium) and reported in 35th Rep't N. Y. State Museum 145. 1884.

#### Ontario County

*Lysimachia terrestris* x *thrysiflora* Fernald & Wiegand

(*Rhodora*, 12: 140. 1910)

Canandaigua. Miss E. C. Webster, June 24, 1911.

This plant had been labelled by Doctor Peck as "*Naumburgia thrysiflora* with terminal spike," but possesses also lower axillary spikes of flowers producing sterile capsules. The terminal spike has all the appearance of that of *L. terrestris*, but bears near its base two lateral undeveloped short-stalked spikes in the axils of small leaflike bracts. The plant has the unmistakable appearance of being a hybrid between the two named species.

*Megalodontia Beckii* (Torrey) Greene

(*Bidens Beckii* Torrey)

Honeoye lake. M. S. Baxter 5641, August 15, 1921.

This remarkable species was first collected at Sander's lake, Schenectady, by Dr L. C. Beck, in flower. Paine's catalog (1865) adds the following localities: Canaderaga lake, outlet of Schuyler's lake, Oneida county, Oswego Falls, Sodus bay, and outlet at Owasco lake. Mrs Goodrich (Pl. of Onondaga Co. 189. 1912) reports it from Tully. Doctor Wibbe (Torr. Club Bul., 10: 46. 1883) reports it from Paddy lake, Oswego county, and Doctor Allen collected it at Saratoga lake (Torr. Club Bul., 21: 497. 1894), which collection is the basis for *M. nudata* Greene (Pittonia, 4: 271. 1901), based upon characters of doubtful value, and apparently representing merely a "habitat variant" such as frequently occurs in *Ranunculus delphinifolius*, and numerous other semiaquatic species.

#### Otsego County

*Cypripedium arietinum* R. Br., forma *albiflorum*, forma nova

All parts of the flower pure white. Summit lake, northern Otsego county. B. D. Gilbert (22d Rep't N. Y. State Mus. 103. 1869).

*Oswego County***Carex scoparia** var. **tessellata** Fernald & Wiegand

(Rhodora, 12: 135. 1910)

Kasoag marsh. *Dr C. H. Peck*. This has been labelled by Peck as "*C. scoparia* minor Boott," which is *C. Crawfordii* Fernald. The plants are but 2 to 3 dm high, the 2 to 6 spikes crowded into a dense inflorescence, which makes the plant resemble *C. Crawfordii*. The scales, however, are brownish and narrower than the body of the perigynia.

**Carex Howei** Mackenzie

Lily marsh, South New Haven. *House 8147*, June 22, 1921.

**Carex incompta** x **interior**

Open marsh near Colosse. *House 8152*, June 23, 1921.

**Panicum albemarlense** Ashe

Lily marsh, South New Haven, growing on the turfy surface of a peat bed. *House 8448*, June 22, 1921. New to this section of the State.

**Limodorum tuberosum** L.

The leaves of this orchid are usually 5 to 15 mm broad and vary exceedingly in length, those in more exposed situations usually being shorter. In Oswego county occurs a rather remarkable extreme in which the leaves are exceedingly narrow (2 to 4 mm broad), long and grasslike, exactly simulating those of the southern *L. graminifolium* (Ell.) Small. This form may be designated as forma *linariifolium*, forma nova.

Kasoag marsh, Oswego county, *C. H. Peck* (type). Lily marsh, South New Haven, Oswego county. *H. D. House*, July 1, 1917.

*Rensselaer County***Anchistea virginica** (L.) Presl.

(*Woodwardia virginica* Sm.)

In a small bog near Brainerd. *House 7173*, July 7.

**Carex grisea** Wahl.

Common in woods north of Rensselaer. *House 6403*, July 3, 1919. **Carex sparganioides** Muhl., and **C. leptoneuria** Fernald, growing with it.

**Carex incomperta** Bicknell

Low woods near Averill Park. *House 6340*, June 23, 1919. Growing with this species were *C. projecta* Mackenzie; *C. trisperma* Dewey; *C. brunnescens* (Pers.) Poir. and *Carex folliculata* L.

**Aster Pringlei** (Gray) Britton

In open dry woods near Averill Park. *House 7670*, October 3.

**Viola pubescens** Ait.

The capsules in this species are usually woolly with a dense white indument. Only two specimens; Bald mountain, Rensselaer county, *Peck*, and Harrisville, Lewis county, *Peck*, have glabrous or nearly glabrous capsules, and may be designated as var. *Peckii*, var. nov. Capsules glabrous or nearly glabrous. The Bald mountain collection by Doctor Peck may be designated as the type.

This variety is parallel to *V. eriocarpa* Schw., var. *leiocarpa* Fernald (*Rhodora*, 23: 275. 1922), to which nearly all of the New York specimens of *V. eriocarpa* seem to belong.

**Galeorchis spectabilis** (L.) Rydb., forma *Gordinierii*, forma nova

All parts of the flowers pure white. Schaghticoke. *H. C. Gordinier* (state herbarium). Reported in the 40th Rep't N. Y. State Mus. 73. 1887.

**Rubus strigosus** Michx., var. *canadensis* (Richards.) comb. nov.

*R. Idaeus* var. *canadensis* Richards. Bot. App. Frankl. Jour. Ed. 2, 747. 1823

*Batidaea subarctica* Greene, Leaflets, 1: 242. 1906

*Rubus subarctica* Rydb., N. Am. Fl., 22: 448. 1913

*Rubus carolinianus* Rydb., l. c. 447.

Inflorescence with both glands and minute bristles; new canes with slender bristles and sometimes also stipitate glands; bark of the new canes cinerous-tomentulose beneath the prickles which are all bristleform.

Stephentown. *Dr C. H. Peck*. Also collected at North Elba, Essex county by *Doctor Peck*.

Typical *R. strigosus* has the bark of the new canes glabrous or nearly so, usually glaucous beneath the bristles and in age becoming lustrous. I can see no advantage in retaining *R. strigosus* as a variety of the European *R. Idaeus*, which has an inflorescence without glands or minute bristles. The leading authority who merges *strigosus* into *R. Idaeus* as a variety, does not hesitate to regard the glandular character of the inflorescence as one of specific value in the blackberries.

***Calluna vulgaris* (L.) Salisb.**

Three miles south of Grafton Center. *Dr Rudolf Ruedemann*, September 5, 1921.

These plants were growing around the bases of dead or partially dead spruce trees (*Picea picea*) which had been imported several years ago from Schleswig-Holstein, Germany. The clumps of heather were not vigorous, but while persisting are not spreading and apparently the climate here is not suitable for this species.

The European heather so well established in eastern Massachusetts and on Martha's Vineyard island, has, unlike many other European introductions, failed to spread far beyond its original place of introduction. This Rensselaer county record recalls attempts to establish the species in the Adirondacks and on the sand plains between Rome and Oneida lake (Paine, Cat. Pl. Oneida Co. 101. 1865), made many years ago, but which were apparently not successful; at least the plants have not since been seen in these localities, although it might be expected to persist on the sand plains of Rome.

***Rubus odoratus* L., forma *albiflorus* forma nova**

Petals white. Pyrites, St Lawrence county, *Mrs Orra Parker Phelps*.

***Limodorum tuberosum* L., forma *latifolium* (St John) comb. nov.**

*Calopogon pulchellus* forma *latifolius* St John, Proc. Bost. Soc. Nat. Hist., 36: 69. 1921

Moreau, Saratoga county, *E. C. Howe* (state herbarium).

The leaves in this broad-leaved extreme are usually shorter than in the typical form and markedly broader, in the Moreau specimen 18 mm broad and 12 cm long, thus forming little more than an approach to the form as described by Doctor St John.

***Hypericum majus* (Gray) Britton**

Along railroad north of Valley Falls. *House 8405*, July 19, 1921.

In the same moist ditch also grows in abundance *H. mutilum*, *H. canadense* and *H. punctatum*. The amount of variation in the size and shape of the leaves of *H. majus*, suggests the possibility that it might be a hybrid between *H. canadense* and *H. punctatum*.

***St Lawrence County******Viola rostrata* Pursh, forma *Phelpsiae*, forma nova**

Petals all white. St Lawrence county, *Mrs Orra Parker Phelps*. Occasionally seen in other localities.

*Saratoga County***Dentaria maxima** Nutt.

Near Wilton. *Mrs Orra Parker Phelps*, June 10.

**Hieracium pilosella** L.

Near Wilton. *Mrs Orra Parker Phelps*, May 10.

**Ranunculus boraceanus** Jordan

Near Wilton. *Mrs Orra Parker Phelps*, June. Also previously collected and reported (cf. *Rhodora*, 21: 208. 1919).

**Asplenium ebenoides** R. R. Scott

Limestone ledges near Wilton. *Mrs Orra Parker Phelps*.

**Iris pseudacorus** L.

Edge of a pond near Round Lake. *Charlotte Borgardus*, July 8.

*Schuyler County***Malva sylvestris** L.

There are but four specimens of this not uncommon European plant in the state herbarium, three of which belong to the variety **mauretiana** (L.) Boiss. In the Sheldon collection is a specimen from Watkins, *C. S. Sheldon*, July 31, 1881, which represents the typical form of **M. sylvestris**.

*Steuben County*

**Solidago squarrosa** Muhl., forma **ramosa** (Peck) comb. nov.

*S. squarrosa ramosa* Peck, N. Y. State Mus. Bul. 139, p. 36. 1910

A form of the species with the branches of the inflorescence forming a large pyramidal panicle. Corning, *Peck*.

*Tompkins County*

**Meibomia nudiflora** (L.) Kuntze, forma **Dudleyi**, forma nova

Corolla white. Thacher's pinnacle, West Dandy, *W. R. Dudley*.

*Ulster County***Pogonia trianthophora** (Sw.) B. S. P.

Low woods near Ashokan. Dr *H. M. Denslow*, September 1.

**Pogonia verticillata** (Willd.) Nutt.

Swamps near Ashokan. Dr *H. M. Denslow*, June 1.

**Opuntia Opuntia (L.) Coulter**

On ledges of rock about 5 miles south of Saugerties. *House* 8419, July 23, 1921.

**Viola palmata x sororia** *hyb. nov.*

Early leaves broadly ovate to reniform, entire or with some of the blades slightly lobed, somewhat pubescent above, glabrous beneath and on the petioles; later leaves softly and rather densely pubescent on the petioles and lower leaf surfaces, the blades less pubescent above, variously 3 to 7 lobed or nearly entire; flowers abundant but soon withering without developing fruit; capsules all from cleistogamous flowers on short, horizontal or deflexed and buried peduncles.

Saugerties, Ulster county, *C. H. Peck*, May 10, 1904. Type. Also collected at Van Cortlandt Park, New York City. *House*.

**Aster violaris** Burgess

Rocky woodlands near Cragmoor. *House* 8579, August 20, 1921.

**Aster Claytoni** Burgess

Woods near Napanoch. *House* 8566, August 21, 1921.

In these specimens the leaves are thin, and with the white rays and subumbelliform clusters of the heads of the inflorescence matches well the description and plate by Burgess. It differs, however, in that the branches of the inflorescence and the bracts are densely glandular-canescenscent, the outer shorter bracts conspicuously green, inner longer ones with green midveins and green tips, all blunt or rounded and conspicuously webby-ciliated on the margins. The disk is pale or whitish, turning to slightly crimson with age. These characters do not accord well with the complete description of *A. Claytoni*, and the same lack of complete agreement of characters is to be noted in regard to many other recently collected specimens of Biotian asters with the descriptions by Burgess. It leads to the conclusion that following the lines marked out by Burgess an indefinitely larger number of so-called species might be established with as little satisfaction from a systematic point of view as prevails in the treatment of New York *Crataegus* by Sargent.

*Warren County***Lysias Hookeriana** (A. Gray) Rydberg

Constantine mountain, near Luzerne. *Dr H. M. Denslow* and *Rev. H. S. Smart*, June 22.

**Aster novi belgi** L.

On gravel bars along the Hudson river near North River. *House* 7596, September 14.

*Washington County****Sagittaria graminea* Michx.**

Pearl Point, Lake George, in about 2 feet of water. *Dr Emmaline Moore*, September 9.

This is a common species in all the lakes and ponds of northern New York. This collection is interesting, however, because of the fine development of floating leaves. These leaves are on elongated filiform petioles, the blades lance-elliptic in shape with straight or slightly converging basal lobes which are one-third to one-fourth the length of the blades. The usual flattened phyllodia are also present. This is the only collection in the state herbarium of this species showing these floating leaves. The writer has examined scores of colonies in various Adirondack lakes during the past two summers without seeing any of these floating leaves, and it is possible that they develop only late in the season.

***Subularia aquatica* L.**

Shore of Lake George. *Dr Emmaline Moore*, August.

***Arctium Lappa* L.**

Roadsides near Cambridge. *House* 7659, September 17.

*Wayne County*

***Geranium Robertianum* L., forma *albiflorum* (G. Don) comb. nova**

*G. Robertianum* var. *albiflorum* G. Don, Gen. Syst. 1:721. 1834

Corollas white. Sodus bay, *Battershall* (state herbarium). This color form was first reported in the New York State Museum Bulletin 2, p. 26. 1887.

*Long Island*

***Polygonum pennsylvanicum* var. *nesophilum* Fernald, Rhodora. 19: 73. 1917**

A rather distinct humifuse plant of the borders of ponds and inlets of the coastal region. Collected at Amagansett, by *Doctor Peck* (state herbarium).

***Hibiscus Moscheutos* L., forma *Peckii*, forma nova**

Petals pure white, otherwise like the typical species. Patchogue. *Dr C. H. Peck* (state herbarium).

***Limonium trichogonum* Blake, forma *albiflorum* (Raf.) comb. nov.**

*Statice caroliniana* var. *albiflora* Raf. Med. Bot., 2:94 1830

Corollas white. Occasional in the salt marshes along the south shore of Long Island.

*Agalinis purpurea* (L.) Pennell, forma *albiflora* (Britton) comb. nov.

*Gerardia purpurea* var. *albiflora* Britton, Torr. Club Bul. 17: 125. 1890

Occasional in the salt marshes along the south side of Long Island.

*Lobelia syphilitica* L., forma *albiflora* (Britton) comb. nov.

*Lobelia syphilitica* var. *albiflora* Britton, l. c.

On Long Island, according to Doctor Britton.

*Cirsium discolor* (Muhl.) Spreng. forma *albiflorum* (Britton) comb. nov.

*Cnicus altissimus* var. *discolor*, forma *albiflorus* Britton, l. c. 124

Reported from Long Island and also from Staten Island.

*Polygala viridescens* L., forma *albiflora* (Millsp.) comb. nov.

*P. sanguinea* var. *albiflora* Millsp. Fl. W. Va. 333. 1892

Corollas white. Rare and local. Hempstead, Long Island. *House*.

*Philotria occidentalis* (Pursh) comb. nov.

*Serpicula verticillata angustifolia* Muhl., Cat. 84. 1813

*S. occidentalis* Pursh, Fl. Am. Sept. 33. 1814

*Apalanthe Schweinitzii* Planch. Ann. Sci. Nat. Bot. III., 11: 76. 1849

*Udora verticillata* ? minor Engelm. in Jahrb. Wiss. Bot., 1: 465. 1885, as syn.

*P. minor* Small, Fl. SE. U. S. 47. 1903

*Elodea minor* Farwell, Rep't Mich. Acad. Sci., 17: 181. 1916

*E. occidentalis* St John, Rhodora, 22: 27. 1920

In New York reported only from the southeastern section of the State. New York City, *Torrey & Gilman*; Hastings, *Bicknell*; Long Island. *Miss E. G. Knight* (as cited by *Rydberg*).

*Rhus copallina* L., var. *nesophila*, var. nov.

Similar to *R. copallina* in general appearance. Leaflets 13 to 17 in number, thicker in texture, less pointed at the apex, being merely acute or abruptly acuminate, smooth, somewhat shining and nearly glabrous above or with a very minute and inconspicuous puberulence during the early part of the season, margins chiefly entire, rarely with two or three low, almost obsolete teeth; wings of the rachis very conspicuous and broad.

Moist thickets along the margins of salt marshes near Oceanside, Nassau county. *House*, September 20, 1917 (type).

***Viola pedata* L., var. *lineariloba* DC., forma *rosea*  
(Sanders) comb. nov.**

*Viola pedata* var. *rosea* Sanders, *Rhodora*, 13: 172. 1911

This form with the rosy colored petals is rare. The only known locality for it in this State is on the edge of the Hempstead plains, *House*.

***Washingtonia longistylis* (Torrey) Britton  
var. *villicaulis* (Fernald) comb. nov.**

*Osmorrhiza longistylis* var. *villicaulis* Fernald, *Rhodora*, 10: 52. 1908

Cold Spring Harbor. *Percy Wilson*, June 13, 1915.

***Lathyrus palustris* L., var. *pilosus* (Cham.) Ledeb.**

Wading River, Long Island. *E. S. Miller* (state herbarium). Similar to the var. *lineariifolius* Ser., but the stems, leaves, calyces and pods finely and densely pubescent.

***Honkenya peploides* (L.) Ehrh.  
var. *robusta* (Fernald) comb. nov.**

*Adenarium maritimum* Raf. New Fl., 1: 62. 1836, excel. syn. L.

*Holosteum succulentum* Nutt. Gen., 1: 89. 1818. Not L.

*Arenaria peploides* var. *robusta* Fernald, *Rhodora*, 11: 113. 1909

Fernald (l. c.) points out that the typical form of this species occurs on the coastal sands of the boreal regions and in America only from Labrador and arctic Alaska. The common form along our coast was described by Rafinesque as *A. maritimum*. Fernald's reason for not adopting this as a varietal name for our plant is that it is inappropriate as a varietal designation for a plant wholly maritime.

***Alopecurus aristulatus* Michx.**

Fields near Orient. *Roy Latham*, July 4.

***Amaranthus pumilus* Raf.**

In sand along the ocean beach, Smith's Point. *Roy Latham*.

***Aristida tuberosa* Nutt.**

Sandy woods, Laurel, town of Southold. *Roy Latham*, September.

***Centaurea nigra* var. *radiata* DC.**

Dry fields near Cutchogue. *Roy Latham*, August 15, 1919.

**Cornus Amomum L.**

Border of swamp near Orient. *Roy Latham*, September 2.

**Diodia teres Walt.**

Low pastured land near Orient. *Roy Latham*, August 29, 1915.

**Cyperus dentatus Torr.**

Near Riverhead. *Roy Latham*, August 4, 1918.

**Euphorbia Ipecacuanhae L.**

Sandy soil near Riverhead. *Roy Latham*, August 9, 1918.

**Draba caroliniana Walt.**

Sandy soil, West Long Beach, Orient. *Roy Latham*, May 23.

**Onosmodium virginianum (L.) DC.**

In dry woods, Cutchogue, town of Southold. *Roy Latham*, September.

**Neopieris mariana (L.) Britton**

In low woods, Cutchogue. *Roy Latham*, August 15.

**Hudsonia ericoides L.**

Sandy pine woods, Bay View, town of Southold. *Roy Latham*, July. Mr Latham remarks that this is the only station known for this plant in the town of Southold.

**Minuartia caroliniana (Walt.) House**

(*Arenaria caroliniana* Walt.)

Sandy soil. Amagansett. *Roy Latham*, June 28.

**Alsine canadensis (Pers.) House**

(*Arenaria canadensis* Pers.; *Spergularis borealis* Robinson)

A species of the northern shores of eastern America, which appears to reach its southern limit of distribution on Shelter island, opposite Greenport, where collected by *Dr C. H. Peck*, in 1871 (state herbarium).

**Panicularia obtusa (Muhl.) Kuntze**

Near Riverhead. *Roy Latham*, August 9, 1918.

**Spartina juncea var. caespitosa (A. A. Eaton) Hitchc.**

Along the borders of salt marshes near Orient. *Roy Latham*, July 20.

***Lactuca canadensis* L., var. *montana* Britton**(in Britton & Brown, *Illus. Fl.*, 3: 274. 1898)*L. integrifolia* Bigel. *Fl. Bost.* Ed. 2, 287. 1824. Not Nutt.*L. sagittifolia* Ell. *Bot. S. C. & Ga.*, 2: 253. 1822; Gray's *Man.* Ed. 7, 867. 1908*L. elongata* var. *integrifolia* T. & G., *Fl. N. Am.*, 2: 496. 1843*L. canadensis* var. *integrifolia* Gray, *Man.* Ed. 5, 281. 1869

Leaves thin, acuminate, pale beneath, tapering to a sessile sagittate-clasping base, the lower ones sparingly sinuate-toothed toward the base, the upper ones all entire; stem glabrous and glaucous, achenes black, oval, flattened, one-nerved on each face, finely pitted and transversely wrinkled, the beak about equal to the body of the achene in length; pappus white; flowers apparently yellow.

This is doubtless the plant reported by Burnham and Latham (*Torreya*, 14: 252. 1914) as *L. sagittifolia* Ell., which is not uncommon in southern New York. The plants here described were collected by Roy Latham, at Cutchogue, town of Southold, and presented to the state herbarium.

## NOMENCLATORIAL NOTES REGARDING CERTAIN NEW YORK STATE PLANTS

The purpose of the following notes is to present in a somewhat formal manner changes of names of certain plants, varieties and forms, which have been found necessary in order to secure uniformity of nomenclature throughout the proposed list of New York State plants.

An intensive study of the flora of the State which the writer has been engaged upon for several seasons, develops the necessity which always follows a careful study of local variations, of recognizing formally the existence of distinct varieties, many of which possess a distinct geographical range, others of which seem to be more dependent upon certain ecological conditions. The systematic position of "forms" as they are now designated is less satisfactory, but it seems necessary in a list of this sort to record formally the most marked members of this category.

***Torresia Nashii* (Bicknell) comb. nov.***Savastana Nashii* Bicknell, *Torr. Club Bul.*, 25: 104. pl. 189. 1898

In and along the edges of brackish marshes near New York City.

***Eleocharis annua* (Thuill.) comb. nov.***Scirpus ovatus* Roth, *Catal. Bot.*, 1: 5. 1797. Not Gilib. 1792*S. capitatus* Schreb. *Spicil.* 60. 1771. Not L.*S. compressus* Moench, *Meth.* 349. 1794. Not Pers.

*S. annuus* Thuill. Fl. Par. Ed. 2, 22. 1799

*S. multicaulis* C. C. Gmel. Fl. Bad., 1: 96. 1806. Not Vahl

*Eleocharis ovata* R. Br. Prodr., 1: 224. 1810

A common annual species of Spike Rush, found in most sections of the State.

***Juncoides intermedium* (Thuill.) Rydb.**

(*J. multiflorum* Druce)

var. ***echinatum* (Small) comb. nov.**

*Juncoides echinatum* Small, Torrey, 1: 74. 1901

*Luzula multiflora* var. *echinata* Fernald & Wiegand, Rhodora, 15: 42. 1913

A southern extreme of the common wood rush, extending northward, chiefly in the coastal plain across southern New York into New England. Inflorescence looser and rarely with more than one of the heads sessile, others more spreading and often widely divergent, some of the rays 5 cm long.

***Quercus rubra* L. Sp. Pl. 996. 1753**

*Q. rubra*, B. L., 1. c.

*Q. rubra maxima* Marsh. Arb. Am. 122. 1785

*Q. rubra* var. *latifolia* Lam. Encycl., 1: 721. 1785

*Q. borealis* var. *maxima* Sarg. Rhodora, 18: 48. 1916

According to Sargent (Rhodora, 17: 39. 1915) the Linnaean type of *Q. rubra* is the tree more recently called *Q. falcata* or *Q. digitata*, and hence chiefly south of our borders. This is quite parallel to the confusion which Sargent has caused in the names of the balsam poplar, the chestnut oak, and other species.

If *Q. rubra* rested absolutely upon the Gronovian and Plukenet citations, as Sargent seems to assume, the change though regrettable, might be excused. However, it happens that *Q. rubra* was briefly described by Linnaeus in the Species Plantarum, and the Gronovian and Plukenet citations merely appended; and in this case, as in numerous other Linnaean species of the species Plantarum, wrongly so. Nothing is to be gained by such a change and in most instances of this sort the alternative plant (*Q. falcata*, in this case), has since received a valid name, and the well-known and long-used Linnaean name can be retained by merely excluding the wrongly appended citations.

It is of little consequence that the specimen in the Linnaean herbarium under *Q. rubra* is not our northern species. The Linnaean herbarium is full of such examples if we may judge from the detailed reports by various authors upon the examinations made. Asa Gray was one of the first to take formal notice of this condition, and his treatment of such cases shows a wisdom which time has amply justified.

In the case of *Populus balsamifera*, while the plates cited by Linnaeus are not of our northern species, the species in the

species *Plantarum* rests upon a brief description taken from the *Hortus Cliffortianus*, which is quite certainly our northern plant, and to which the name *P. balsamifera* must apply unless we wish to invite a confusion of nomenclature which will render ridiculous all proposed codes.

Professor Sargent should read and reflect upon the common sense statement by Fernald in regard to the name *Prunus virginiana* L. (*Rhodora*, 18: 140-141. 1916).

In its typical form the true red oak has very large acorns with very shallow cups, but not infrequently intergrading with the variety known as the gray oak, which has smaller acorns and deeper cups and which does not seem to have, in this State at least, any distinct geographical range separate from that of *Q. rubra*. It has been regarded by some authorities as a distinct species, but is better placed as a variety:

**var. borealis** (Michx. f.) comb. nov.

*Q. ambigua* Michx. f. *Hist. Arb. Am.*, 2: 120. *pl.* 24. 1812. Not Humb. & Bonpl.

*Q. borealis* Michx. f. *N. Am. Sylv.*, 1: 98. *pl.* 26. 1817

***Campe stricta*** (Andr.) Wight, var. ***taurica*** (DC.) comb. nov.

*Barbarea taurica* DC, *Syst.*, 2: 207. 1821

*B. arcuata* Reichenb. *Flora*, 5: 296. 1822

*B. vulgaris* var. *arcuata* Fries, *Novit. Fl. Suec.* 205. 1828

A variety, or perhaps little more than a form of the typical species, with arcuate-ascending pods. Occasional throughout the State as a naturalized or adventive plant.

### ***Carex strictior* Dewey**

A form of this species growing at Hidden lake in southern Herkimer county and elsewhere, with very short and stout pistillate spikes was described by Doctor Peck as *Carex stricta* var. *curtissima* (Howe, in 48th Rep't N. Y. State Mus. 150. 1895). The true *C. stricta* as distinguished by Mackenzie appears to be limited in this State to the coastal plain, where a similar form was also collected by Peck, but the Hidden lake specimen is the type, and may be designated as ***Carex strictior*, forma *curtissima*** (Peck) comb. nov.

*Carex strictior* also passes into another extreme in which the pistillate spikes are but 2.5 to 3 mm thick and 25 to 40 mm long, and less compact, often staminate at the apex. This is *Carex angustata* Boott, *C. xerocarpa* Wright, or *C. stricta* var. *angustata* Bailey, but is doubtless better recorded as a form: ***Carex strictior*, forma *angustata*** (Boott) comb. nov.

**Carex stricta** Lam.

This coastal plain sedge exhibits parallel forms to those of *Carex strictior*. Forma **brevior**, forma nova. Pistillate spikes stout, 5-15 mm long and 3.5-4.5 (rarely 5) mm thick, sometimes staminate at the apex. Islip, Suffolk county, *Peck* (type). Forma **pedicellaris**, forma nova. Pistillate spikes very slender on short or sometimes somewhat elongated filiform stalks, 2.5-3 mm thick, 15-40 mm long, the peryginia less crowded and toward the base becoming widely separated. Islip, Suffolk county, *Peck* (type).

**Vaccinium angustifolium** Ait. Hort. Kew., 2: 11. 1789

Leaves narrowly lanceolate, 7 to 20 mm long and 3 to 7 mm wide in the typical form, merging into the commoner, broader-leaved and more glabrous form which may be designated as var. **laevifolia**, var. nov. (*V. pennsylvanicum* Lam., not Mill.)

Another extreme of the species has the leaves and twigs more or less pubescent, the leaf-blades evidently lustrous, and is var. **myrtilloides** (Michx.) comb. nov. (*V. myrtilloides* Michx. Fl. Bor. Am. 1: 234. 1803; *A. pennsylvanicum* var. *myrtilloides* Fernald, Rhodora, 10: 148. 1908), and while chiefly more northern in distribution, has been collected by *Peck* at Islip, Long Island.

**Asclepias pulchra** Ehrh., forma **albiflora**, forma nova

Flowers white. Clove lake, Staten Island, *Hollick*. Also reported in Torr. Club Bul., 6: 294. 1879, under *A. incarnata*.

**Lithospermum luteum** (Raf.) comb. nov.

*L. latifolium* Michx. Fl. Bor. Am., 1: 131. 1803. Not Forsk. 1775

*Cyphorina latifolia* Raf. Am. Mo. Mag., 4: 191. 1819

*Cyphorina lutea* Raf. Cat. 13. 1824

*L. lutescens* N. Coleman, Cat. Pl. Grand Rapids. 29. 1874

In dry thickets, fields and woods. Infrequent in the western part of the State.

**Pontederia cordata** L.

Under *Umsena* (Med. Repos. II, 5: 352. 1808) and *Unisema* (Med. Bot., 2: 107. 1830), Rafinesque describes several so-called species, all referable to forms of the Linnaean species. Of these forms occurring in New York, his *U. media* represents our common form, while his *U. Purshiana* is the very narrow-leaved form (*P. angustifolia* Pursh).

**Forma angustifolia** (Pursh) comb. nov.

In this form the leaves vary from 4 to 8 inches in length, and one-half of an inch to 2 inches broad at the hastate base. Stissing pond, Dutchess county, *Peck*.

**Forma latifolia** (Raf.) comb. nov.

(*Unisema latifolia* Raf.)

Leaves 5 to 7 inches long, occasionally longer, and 4 to 5 inches broad at the shallowly cordate-hastate base. Mud lake, North Hannibal, Oswego county, *C. S. Sheldon*, August 25, 1879.

Other and less-marked forms might be recognized with respect to the base of the leaf-blades which in some colonies are more cordate and in other colonies more hastate. The form of the typical species, forma **albiflora** (Raf.) comb. nov. (*Unisema media* var. *albiflora* Raf.) with white flowers, has not, to my knowledge, been reported from New York.

**Agalinis tenuifolia** (Vahl) Raf., forma **albiflora** (Britton) comb. nov.

(*Gerardia tenuifolia* var. *albiflora* Britton)

Occurs rarely with the typical species.

**Solidago caesia** L.

Gray (T. & G. Fl. N. Am., 2: 199. 1841), states that no specimen of *S. caesia* exists in the Linnaean herbarium, and that the species must rest upon "*Virga aurea marilandica caesia glabra*" Dill Elth, t. 307 f. 395. This is the so-called var. *paniculata*.

The common northern form with mainly simple stems, the thin leaves much exceeding the very small axillary flower clusters, appears to be more properly designated as a form than as a variety; forma **axillaris** (Pursh) comb. nov. (*S. axillaris* Pursh, Fl. Am. Sept. 542. 1814; *S. caesia* var. *axillaris* A. Gray).

**Senecio pauperculus** Michx. var. **praelongus** (Greenman) comb. nov.

*S. Balsamitae* var. *praelongus* Greenman, *Rhodora*, 3: 6, 1901

Reported from northern New York in the seventh edition of Gray's Manual (1908), but is not represented from this State in the state herbarium.

**OSTEOSPERMUM** L. Sp. Pl. 923. 1753

**O. Uvedalia** L. is quite obviously the type of *Osteospermum* L., both in the treatment by Linnaeus and by Miller (Gard. Dict. 4th Abr. Ed. 1754). The Old World species heretofore left in *Osteospermum* should be placed in *Monilifera* Adans. (1763), or in *Gibraria* Cass. (1817).

Rather recently Small and Carter (Fl. Lancaster Co. Pa. 302. 1913) have revived the generic name *Polymniastrum* Lam. for *O. Uvedalia* L., although it is antedated by *Alymnia* Necker. *Polymnia* L. as a genus can be retained only if *P. canadensis* is regarded as generically distinct from *O. Uvedalia*, as is done by Small and Carter. The writer prefers to retain them both under *Osteospermum*.

***Osteospermum canadense* (L.) comb. nov.**

*Polymnia canadensis* L. Sp. Pl. 926. 1753

**CRATAEGUS** L.

The following changes in the names of certain thorns have been submitted by W. W. Eggleston, who has prepared a complete account of the New York State species, for the proposed list of New York State plants.

***Crataegus Crus galli* x *succulenta* Eggl., hyb. nom. nov.**

To this hybrid name should be referred *C. persimilis* Sarg., *C. helderbergensis* Sarg., *C. robusta* Sarg., and *C. cerasina* Sarg.

It is known from Buffalo, Niagara Falls, Rochester, Hemlock lake, and at Thompson's lake, Albany county.

***Crataegus punctata* x *succulenta* Eggl., hyb. nom. nov.**

*C. menandiana* Sarg. N. Y. State Mus. Bul. 105, p. 69. 1906

Collected at Menands, Albany county, *Peck*.

***Crataegus straminea* Beadle, var. *Bissellii* (Sarg.) Eggl.,  
comb. nov.**

*C. Bissellii* Sarg., *Rhodora*, 5: 65. 1903

*C. apposita* Sarg., var. *Bissellii* Eggl., *Rhodora*, 10: 76. 1908

Known from North Greenbush, Staatsburg, Ithaca, Coleman's Station and Moore's Mills, near New York City and at Rochester.

**Crataegus chrysocarpa Ashe***(C. rotundifolia (Ehrh.) Moench, not Lamarck)*var. **Faxoni** (Sarg.) Eggl., comb. nov.*C. Faxoni* Sarg. Rhodora, 5: 161. 1903*C. rotundifolia* var. *Faxoni* Eggl. Rhodora, 10: 79. 1908

Known from Orient Point, Albany, Crown Point, North Greenbush, Pawling, Fort Ann, North Elba, Lake Placid, Chateaugay, Buffalo and Ogdensburg.

**Crataegus chrysocarpa x macrosperma** Eggl., hyb. nom. nov.*C. maligna* Sarg. N. Y. State Mus. Bul. 167, p. 111. 1913Collected near Ogdensburg, *John Dunbar*.**Crataegus chrysocarpa x punctata** Eggl., hyb. nom. nov.*C. neo-Baxteri* Sarg., l. c., 122: 74. 1908Collected at Tuscarora, *M. S. Baxter*.**Crataegus macrosperma x pruinosa** Eggl., hyb. nom. nov.*C. implicata* Sarg., l. c., 122: 49. 1908*C. dissociabilis* Sarg., l. c. 95Buffalo, *Peck*. Coopers Plains, *Cornell*.**Crataegus macrosperma x punctata** Eggl., hyb. nom. nov.*C. Harryi* Sarg., l. c., 122: 124. 1908

Richmond, Ontario county; Canadice lake, and Honeoye lake.

**Crataegus pruinosa x straminea** Eggl., hyb. nom. nov.*C. brevipes* Peck, N. Y. State Mus. Bul. 139, p. 20. 1910Corning, *Peck*.**Crataegus pruinosa x punctata** Eggl., hyb. nom. nov.*C. hudsonica* Sarg. Man. 457. f. 373. 1905Albany and Greenbush, *Peck*.**Crataegus coccinea L.***(Crataegus pedicillata Sarg.)*var. **Ellwangeriana** (Sarg.) Eggl., comb. nov.*C. Ellwangeriana* Sarg. Bot. Gaz., 33: 118. 1902*C. pedicillata* var. *Ellwangeriana* Eggl., Rhodora, 10: 82. 1908

Widely distributed across the State.

**Crataegus coccinea x macrosperma** Eggl., *hyb. nom. nov.**C. Hadleyana* Sarg., N. Y. State Mus. Bul. 167, p. 93. 1913*C. Maribella* Sarg., l. c.Herkimer and Little Falls, *Haberer*.**Crataegus coccinea x pruinosa** Eggl., *hyb. nom. nov.**C. pallescens* Sarg., l. c. 81*C. seclusa* Sarg., l. c. 89*C. latifolia* Sarg., l. c. 83Ogdensburg, *John Dunbar*; Richmond on Hemlock lake, Livingston county, *Brown*.**Crataegus Brainerdii** var. **Egglestoni x succulenta** Eggl., *hyb. nom. nov.**C. Peckietta* Sarg., *Rhodora*, 7: 174. 1905Piseco, Hamilton county, *Peck*; Lake Pleasant, *Peck*; Keene, Essex county and Horicon, Warren county, *Peck*.**Crataegus succulenta** Schrader*C. glandulosa* var. *macrantha* Lindl., *C. macrantha* var. *minor* Lodd., *C. Halliana* Sarg., *C. sonnenbergensis* Sarg., *C. macrantha* var. *succulenta* Eggl., *Rhodora*, 10: 82. 1908var. **macrantha** (Lodd.) Eggl., *comb. nov.**C. macrantha* Lodd. in Loud. Arb. Brit., 2: 819. 1838*C. macracantha* Koehne, *Deutsche Dendr.* 236. 1893*C. ferentaria* Sarg., *C. Beckiana* Sarg., *C. microsperma* Sarg., and *C. ogdensburgensis* Sarg.var. **rhombifolia** (Sarg.) Eggl., *comb. nov.**C. rhombifolia* Sarg., *Rhodora*, 5: 183. 1903*C. macrantha* var. *rhombifolia* Eggl., *Rhodora*, 10: 82. 1908**Crataegus Calpodendron** (Ehrh.) Medic. *Geschichte Bot.* 83.

1793

*Mespilus Calpodendron* Ehrh. *Beitr.*, 2: 67. 1788*C. Crusgalli* Mill. *Gard. Dict.* ed. 8, No. 5, 1768. Not L.*C. tomentosa* DuRoi, *Harbk. Baumz.* Ed. 1, 183. 1771. Not L.*C. Chapmani* Ashe, *Bot. Gaz.*, 28: 270. 1899*C. Chapmani* var. *Plukenetii* Eggl., *Rhodora*, 10: 83. 1908**Crataegus Calpodendron x punctata** Eggl., *hyb. nom. nov.**C. celsa* Sarg., N. Y. State Mus. Bul. 122, p. 31. 1908Niagara Falls, *John Dunbar*.

**RUYSCHIANA** Miller, Gard. Dict. 4th Abr. Ed., 1754.

*Moldavica* (Tourn.) L. (1735); Adans. Fam. Pl., 2: 190. 1763  
*Zornia* Moench, Meth. 410, 1794, in part. Not *Zornia* J. F. Gmel.  
*Dracocephalum* Benth. Lab. Gen. & Sp. 490. 1832-36. Not L.

Doctor Britton takes up Adanson's name for this group of the mint family, which is distinguished from the true *Dracocephalum* of Linnaeus (*Physostegia* Benth.) by the posterior (upper) pair of stamens being longer than the anterior ones, while in *Dracocephalum* the posterior pair of stamens is shorter than the anterior pair. In *Ruyschiana* the calyx is two-lipped, while in *Dracocephalum* the calyx is nearly or quite equally five-toothed or five-lobed, a combination of characters which in this family is of considerable importance and which places *Ruyschiana* (*Moldavica*) in a separate subdivision of the family.

*Ruyschiana* contains about thirty species, mostly natives of Europe and western Asia, with a single species in North America. The species fall naturally into five sections. The type of *Moldavica* Adans. is *Dracocephalum Moldavica* L., while the type of *Ruyschiana* is *Dracocephalum Ruyschiana* L., which belongs to a section which differs from the other four sections of the genus mainly in having the anthers villous.

*Dracocephalum virginianum* L. is quite clearly the type of the genus *Dracocephalum*, not only in the treatment by Linnaeus, but in pre-Linnaean literature.

***Ruyschiana parviflora* (Nutt.) comb. nov.**

*Dracocephalum pariflorum* Nutt. Gen. 2: 35. 1818  
 ? *D. nervosum* Raf. Fl. Ludov. 43. 1817  
*Moldavica parviflora* Britton, in Britton & Brown, Illus. Fl. Ed. 2, 3: 114. 1913

This is the only member of the section **Cryptodracon** (Benth.) comb. nov. (*Dracocephalum*, Sect. **Cryptodracon** Benth.)

The principal Eurasian species are as follows:

**Sect. 1. *Keimodracon* (Benth.)**

***Ruyschiana pinnata* (L.) comb. nov.**  
*Dracocephalum pinnatum* L. Sp. Pl. 594. 1753.  
***Ruyschiana discolor* (Bunge) comb. nov.**  
*Dracocephalum discolor* Bunge; Verz. Suppl. Fl. Alt. 51. 1836  
*D. organoides* Ledeb. Fl. Alt., 2: 383. 1830. Not Steph.  
***Ruyschiana palmata* (Steph.) comb. nov.**  
*Dracocephalum palmtaum* Steph.; Willd. Sp. Pl., 3: 151. 1800

*Ruyschiana botryoides* (Stev.) comb. nov.  
*Dracocephalum botryoides* Stev. Hem. Soc. Nat. Cur. Mosc.,  
 3: 266. 1812

*Ruyschiana origanoides* (Steph.) comb. nov.  
*Dracocephalum origanoides* Steph., Willd. Sp. Pl., 3: 151.  
 1800

Sect. 2. *Calodracon* (Benth.)

*Ruyschiana grandiflora* (L.) comb. nov.  
*Dracocephalum grandiflorum* L. Sp. Pl. 595. 1753  
*D. altaianse* Laxm. Nov. Comm. Petrop., 15: 556. t. 29. f. 5. 1770  
*Ruyschiana imberbis* (Bunge) comb. nov.  
*Dracocephalum imberbe* Bunge, Verz. Suppl. Fl. Alt. 50. 1836  
*D. grandiflorum*: Willd.; Ledeb. Fl. Ross., 3: 385. 1846-51. Not L.  
*Ruyschiana Wallichii*, nom. nov.  
*Dracocephalum speciosum* Benth. in Wall. Pl. Rar. Asiat., 2:  
 65. 1831. Not Sweet.

*Ruyschiana fragilis* (Turcz.) comb. nov.  
*Dracocephalum fragile* Turcz. in Benth. Lab. Gen. & Sp. 495.  
 1832-36

Sect. 3. *Cryptodracon* (Benth.)

Sect. 4. *Moldavica* (Tourn.)

*Ruyschiana Moldavica* (L.) comb. nov.  
*Dracocephalum Moldavica* L. Sp. Pl. 595. 1753  
*Moldavica punctata* Moench, Meth. 410. 1794  
*Moldavica suaveolens* Gilib. Fl. Lituan., 1: 79. 1781  
*D. fragrans* Salisb. Prodr. 87. 1796  
*M. Moldavica* Britton, l. c. 115.  
*Ruyschiana heterophylla* (Benth.) comb. nov.  
*Dracocephalum heterophyllum* Benth. Lab. Gen. & Sp. 738.  
 1832-36

*D. acanthoides* Edgew.; Benth. in DC. Prodr., 12: 401. 1848  
*Ruyschiana peregrina* (L.) comb. nov.  
*Dracocephalum peregrinum* L. Sp. Pl. Ed. 2. 829. 1762  
*Ruyschiana verticillata* Mill. Gard. Dict. Ed. 8, No. 2, 1768  
*Ruyschiana thymifolia* (L.) comb. nov.

*Dracocephalum thymifolium* L. Sp. Pl. 596. 1753  
*Zornia parviflora* Moench, Meth. 411. 1794

*Ruyschiana nutans* (L.) comb. nov.  
*Dracocephalum nutans* L. Sp. Pl. 596. 1753  
*Zornia nutans* Moench, l. c.

*Ruyschiana fruticulosa* (Steph. Comb. nov.)  
*Dracocephalum fruticulosum* Steph.; Willd. Sp. Pl., 3: 152.  
 1800

*Ruyschiana integrifolia* (Bunge) comb. nov.  
*Dracocephalum integrifolium* Bunge; in Ledeb. Fl. Alt., 2:  
 387. 1830

Sect. 5. *Euruyschiana*

(*Dracocephalum*, Sect. *Ruyschiana* Benth.)

*Ruyschiana Ruyschiana* (L.) comb. nov.  
*Dracocephalum Ruyschiana* L. Sp. Pl. 595. 1753  
*Ruyschiana spicata* Miller, l. c. No. 1.  
*Moldavica punctata* Moench, Meth. 410. 1794  
*Zornia linearifolia* Moench, l. c. Suppl. 139. 1802  
*D. angustifolium* Gilib. Fl. Lituan., 1: 78. 1781  
*Ruyschiana austriaca* (L.) comb. nov.  
*Dracocephalum austriacum* L. Sp. Pl. Ed. 2, 829. 1762  
*Ruyschiana laciniata* Miller, Gard. Dict. Ed. 8, No. 3. 1768  
*Zornia partita* Moench: Steud. Nom. 285. 1821  
*Ruyschiana argunensis* (Fisch.) comb. nov.  
*Dracocephalum argunense* Fisch.; Link, Enum. Hort. Berol.,  
 2: 118. 1822

**VIREA** Adans. Fam. Pl., 2: 112. 1763.

The type of *Leontodon* L., is *L. Taraxacum*, the common dandelion, and this is the treatment of the name by Britton (in Britton & Brown, Illus. Fl. Ed. 2, 3: 315. 1913). The numerous other species commonly referred to *Leontodon* by European writers do not form a wholly homogenous generic group, which is doubtless responsible in large part for the numerous generic names proposed for various species or groups of species more recently comprised in *Leontodon*.

*Apargia* Scop. seems to be the generally accepted name where *Leontodon Taraxacum* is excluded as being typical of *Leontodon*, although several other names such as *Scorzoneroides* Moench, *Colobium* Roth, *Oporinia* D. Don, and *Thrinica* Roth have been at various times commonly used.

The type of *Virea* Adans. is *Leontodon autumnale* L., and is therefore the earliest generic name for this group of species, none of them native to America, but several of which are well-known naturalized or adventive plants.

The generic synonyms of *Virea* Adans. are as follows:

*Leontodon* L. (in part) 1753: Gray's Man. Ed. 7, 863. 1908  
*Apargia* Scop. Fl. Carn. Ed. 2, 2: 113. 1772  
*Antodon* Neck. Elem., 1: 58. 1790  
*Planzia* Neck., l. c. 49  
*Scorzoneroides* Moench, Meth. 549. 1794  
*Colobium* Roth, in Roem. Arch., 1: 36. 1796  
*Thrinica* Roth, l. c. (*Thrica* S. F. Gray, 1821)  
*Oporinia* D. Don, Edinb. New Phil. Jour. 309. 1828-29  
*Thrixia* Dulac. Fl. Hautes-Pyr., 495. 1867  
*Hedypnois* European Authors, Not Scop. 1772, as to type which is *Leontodon Taraxacum* L.

In addition to these, the generic names *Asterothrix* Cass., *Deloderium* Cass., *Fidelia* Sch.-Bip., *Kalbfussia* Sch.-Bip., *Streckeria* Sch.-Bip., and *Millina* Cass., are referable to *Virea* Adans.

S. F. Gray divided the species between *Thrica* (*Thrinica*) Roth, and *Virea* Adans., and this general segregation under varying generic names is common to most of the earlier European floras, but which if maintained, necessitates the recognition of several other genera, which are more logically regarded as sections of a single genus, the earliest name of which is *Virea* Adans.

The species in our flora are as follows:

*Virea autumnalis* (L.) S. F. Gray (*Leontodon autumnale* L., *Apargia autumnalis* Hoffm.)

*Virea autumnalis* var. *pratensis* (Link) comb. nov.

*Apargia pratensis* Link, Handb., 1: 791. 1829. *Leontodon pratensis* Reichenb., *L. autumnalis* var. *pratensis* Koch.

*Virea hispida* (L.) S. F. Gray

(*Leontodon hispidum* L., *Apargia hispida* Hoffm., *Hedypnois hispida* Huds., *Apargia communis* Spenn., *Leontodon hostile* var. *vulgaris* Koch).

*Virea hispida*, var. *hastilis* (L.) comb. nov.

*Leontodon hostile* L. Sp. Pl. Ed. 2, 1123. 1763. *Apargia hispida* Willd., not Hoffm.; *Apargia danubialis* Scop., *A. caucasia* Bieb., *A. heterophylla* Moench.

*Virea nudicaulis* (L.) comb. nov.

*Crêpis nudicaulis* L. Sp. Pl. 805. 1753  
*Leontodon hirtum* L. Sp. Pl. Ed. 2, 1123. 1763  
*Apargia nudicaulis* Britton, l. c. 310  
*Colobium hirtum* Roth; *Leontodon nudicaule* Banks;  
*Apargia hirta* Scop.; and *Thrinica hirta* Roth.

Several additional species occur throughout southern Europe, northern Africa, western Asia and in central and eastern Europe.

*Sambucus racemosus* L.

A very rare form of the red-berried elder, with white fruit, is described in Torrey & Gray (Fl. N. Am., 2: 13. 1843) as having been collected in the Catskill mountains by J. Hogg. This form should be recognized as *Sambucus racemosus* forma *leucocarpa* T. & G.) comb. nov. (*S. pubens*  $\beta$ . *leucocarpa* T. & G., l. c.)

*Lacinaria spicata* (L.) Kuntze

The white-flowered form described by Doctor Britton, as *Liatris spicata* f. *albiflora* (Torr. Club Bul., 17: 124. 1890) should be designated as *Lacinaria spicata* forma *albiflora* (Britton) comb. nov.

*Hypopitys lanuginosa* (Michx.) Nutt.

var. *rosea* (Torrey) comb. nov.

*Monotropa lanuginosa* var. *rosea* Torrey, Fl. N. Y. 1: 457. 1843  
*Hypopitys insignata* Bicknell, Torr. Club Bul., 41: 413. 1914

The characters mentioned by Bicknell which serve to distinguish this from *H. lanuginosa* are too insignificant for a clear specific recognition. Although lower and more compact in stature

its flowering period is not always later, the writer having collected what is apparently this variety, at least the plants were bright rosy red in color, at Merrick, Long Island, on July 28, 1916 (state herbarium).

***Silene anglica* L.**

This name has priority over *S. gallica* L., by which name the species has been most commonly known. The rather rare variety with more showy petals which are subentire, deep crimson with a white or pink border (*S. quinquevulnera* L. Sp. Pl. 417. 1753), should be known as *Silene anglica* var. *quinquevulnera* (L.) comb. nov. (*S. gallica* var. *quinquevulnera* Koch). This variety is occasionally seen in gardens and rarely escapes to waste places.

***Gnaphalium obtusifolium* L.**

var. ***Helleri*** (Britton) comb. nov.

*Gnaphalium Helleri* Britton, Torr. Club Bul., 20: 280. 1893  
*G. polycephalum* var. *Helleri* Fernald, Rhodora, 10: 94. 1908

Infrequent or rare from central New York westward and southward does not appear to be always clearly distinguishable from the common *G. obtusifolium* L.

***Helianthus decapetalus* L.**

The plants collected at Woodlawn, New York City, and described by Britton as *H. scrophulariaefolius* (Manual 995. 1901) and later considered by Doctor Britton as possibly but a form of *H. decapetalus* (Illus. Fl. ed. 2, 1913), may for the present be considered as a variety of that species: *Helianthus decapetalus*, var. *scrophulariaefolius* (Britton) comb. nov. The distinct laciniate-serrate character of the leaves serves as its chief distinguishing feature.

NEW OR NOTEWORTHY SPECIES OF FUNGI, III

BY

JOHN DEARNESS and HOMER D. HOUSE

***Alternaria Solani* (E. & M.) Jones & Grout**

Munnsville, Madison county, on *Amaranthus retroflexus* L. *H. D. House*, October 13. The host plants were growing with *Solanum tuberosum* L., similarly affected with the "early blight."

**Botryosphaeria fuliginosa** (M. & N.) E. & E.

Albany, on dead limbs of *Ulmus americana* L. *H. D. House*, November 15, 1919. This is sometimes identified as *Botryosphaeria Quercuum* (Schw.) Sacc. (Syll., 1: 456. 1882). The range of hosts, as represented in the state herbarium, includes in addition to *Ulmus*; *Quercus*, *Fraxinus*, *Juglans*, *Sassafras*, *Acer*, *Ceanothus* and *Rubus*.

**Camarosporium metabliticum** Traill.

On dead leaves and culms of *Ammophila arenaria* (L.) Link. Round pond, Monroe county. *H. D. House*, July 3, 1917. Also collected by Doctor Jelliffe, in May 1893, on the same host at Rockaway Beach, N. Y. (Shear, N. Y. Fungi No. 379), and a collection from the same locality by Doctor Jelliffe (April 1893), was described by Ellis and Everhart as *C. grammicolum* (Acad. Sci. Phila. Feb. 1893, p. 161).

**Cercospora caricis** Dearness & House

On living and languishing leaves of *Carex arctata* Boott. Inlet, Hamilton county, *H. D. House*, August 14, 1919.

**Cercospora galii** Ellis & Holway

On living leaves of *Galium asprellum* Michx. Fourth lake, Herkimer county, *H. D. House*, August 11, 1919.

**Cercospora cerasella** Sacc.

On living leaves of *Prunus serotina* Ehrh. Karner, Albany county, *H. D. House*, October 2, 1919.

**Cercospora menispermii** Ellis & Holway

On living leaves of *Menispermum canadense* L. South bay, Madison county, *H. D. House*, September 16, 1919.

**Cercospora tabacina** Ellis & Everhart

On living leaves of *Rudbeckia laciniata* L. Oneida, Madison county, *H. D. House*, September 19, 1919.

**Cladosporium gleosporioides** Atkinson

On living leaves of *Triadenum virginicum* (L.) Raf. (*Hypericum virginicum* L.). Fourth lake, Herkimer county, *H. D. House*, August 9, 1919; Albany, August 22, 1919.

**Cercospora kalmiae** Ellis & Everhart

On living and languishing leaves of *Kalmia latifolia* L. Napanoch, Ulster county, *H. D. House*, October 6, 1919.

***Cercospora lespedezae* Ellis & Dearness**

On living leaves of *Lespedeza hirta* (L.) Hornem. Karner, Albany county, *H. D. House*, August 21, 1919.

***Cercospora sagittariae* Ellis & Kellerman**

On living and languishing leaves of *Sagittaria latifolia* Willd. Oneida, Madison county, *H. D. House*, August 26, 1918.

***Cladosporium aphidis* Thumen**

On leaves of *Helianthus annuus* L. Karner, Albany county, *H. D. House*, September 9, 1919. The leaves were heavily infested with aphids (*Aphis helianthi* Monell), which doubtless serves as the host of the *Cladosporium*. All the leaves contained in addition a *Septoria* which matches *Septoria helianthi* E. & K. (in herb. Dearness), but which does not fully agree with the published description. *Puccinia helianthi-mollis* Schw. was also frequent upon the same leaves.

***Cylindrosporium toxicodendri* (Curtis) Ellis & Everhart**

On living and languishing leaves of *Rhus Toxicodendrum* L. Albany, *H. D. House*, August 21, 1919. See *Mycologia*, 8: 105.

***Cylindrosporium clenatidis* Ellis & Everhart**

On languishing leaves of *Clematis virginiana* L. Panther lake, Oswego county, *H. D. House*, October 14.

***Diatrype albopruniosa* (Schw.) Cooke**

On dead branches of *Quercus ilicifolia* Wang. Albany, *H. D. House*, November 23, 1919. This fungus is frequent upon oak and other hosts, and this record is interesting only as a record for it upon one of the oaks of limited distribution in New York.

***Diatrype stigma* (Hoffm.) Fr.**

On dead decorticated branches of *Opulaster opulifolius* (L.) Kuntze. Albany, *H. D. House*, November 15, 1919. This form, with the strongly cleft ostiola, was originally designated by Ellis as *D. dearnessei*, but later he found variations between it and *D. stigma* so numerous and gradual, that the distinction could not be maintained.

***Diatrypella Frostii* Peck**

On dead branches of *Acer saccharum* Marsh. Oriskany Falls, Oneida county, *H. D. House*, May 26. The same limbs yielded *Massaria inquinans* (Tode) Fr., and *Diatrype stigma* (Hoffm.) Fr.

**Diatrypella missouriensis** Ellis & Everhart

On dead twigs of *Corylus americana* L. Karner, Albany, county, *H. D. House*, October 15, 1918.

**Darluca filum** (Biv.) Cast.

Parasitizing *Puccinia polygoni-amphibii* Pers. on leaves of *Polygonum Hartwrightii* Gray. Junius, Seneca county, *H. D. House*, August 10, 1917. On *Puccinia punctata* on leaves of *Galium asprellum* Michx., Fourth lake, Herkimer county, *H. D. House*, August 11, 1919.

**Dinemasporium hispidulum** (Schrad.) Sacc.

On dead stems of *Leonurus Cardiaca* L. Albany, *H. D. House*, November 23, 1919.

**Diaporthe aorista** Ellis & Everhart

On dead stems of *Aster lateriflorus* L. *H. D. House*, Bonaparte swamp, Lewis county, June 23.

**Entyloma lineatum** (Cooke) Davis

On sheaths and leaves of *Zizania aquatica* L. Glenmont, Albany county, *H. D. House*, September 18, 1918.

**Eutypella radula** (Pers.) Ellis & Everhart

On dead branches of *Populus tremuloides* Michx. Albany, *H. D. House*, October 15, 1919.

**Epicoccum vulgare** Corda

On dead stems of *Equisetum hyemale* L., prematurely killed by a grass fire. Albany, *H. D. House*, November 17, 1919 and April 30, 1921.

**Fenestella fenestrata** (Berk. & Br.) Schroeter

(*F. princeps* Tul.)

On dead twigs of *Populus nigra* var. *italica* DuRoi. Albany, *H. D. House*, May 13, 1917. The same collection also contains *Valsa ambiens* (Pers.) Fr.

**Fenestella vestita** (Fr.) Sacc.

On dead twigs of *Amelanchier spicata* (Lam.) C. Koch. Albany, *H. D. House*, December 28, 1919.

**Entomosporium maculatum** Lev.

On fallen leaves of *Amelanchier canadensis* (L.) Medic. Albany, *H. D. House*, September 21.

**Gloeosporium hydrophylli** Dearness & House

On living leaves of *Hydrophyllum virginianum* L. South bay, Madison county, *H. D. House*, August 20, 1918. The type collection of this species was made at Kirkville, Onondaga county on *Hydrophyllum canadense* L. On *H. virginianum* the spores are larger and measure up to  $12 \times 3 \mu$ .

**Gloeosporium polygoni** Dearness & House, sp. nov.

Spots brown, red-bordered, subcircular, soon deciduous, .5 to 2 cm broad, becoming confluent. Acervuli epiphyllous, perforate, reaching  $200 \mu$  in diameter. Spores oblong,  $5-7 \times 2 \mu$ . When opened in water the spores issue in relatively large streams.

On living and languishing leaves of *Polygonum Muhlenbergii* S. Wats. South bay, Madison county, *H. D. House*, September 16, 1919.

The leaves also bear a scarcely mature *Sphaerella* which is apparently *Mycosphaerella polygonorum* (Crie) comb. nov. *Depazea polygonorum* Crie; *Sphaerella polygonorum* Sacc. (Syll., 1: 512. 1882).

**Gloeosporium caryae** Ellis & Dearness

On living leaves of *Hicoria glabra* (Mill.) Britton. Glenmont, Albany county, *H. D. House*, September 23, 1919.

**Gnomonia papillostoma** Dearness & House, sp. nov.

Perithecia black, hypophyllous but the dark base protuberent and plainly visible on the upper sides of the leaves; except the protruding ostiola covered by the cuticle,  $200-300 \mu$  in diameter. Ostiola cylindric, shining, often more or less curved,  $80-200 \mu$  long by  $25-30 \mu$  thick, usually slightly enlarged at the perforate summit. Asci  $35 \times 7 \mu$ , cylindric. Sporules hyaline, biseriate or very obliquely uniseriate, an obscure septum dividing a small pointed cell from a superior wider one;  $9-11 \times 3 \mu$ .

On dead leaves of *Spiraea latifolia* Borkh., hanging on living branches. Albany, *H. D. House*, May 1. The type material is not quite mature and most of the sporidia appear continuous.

**Hainesia rhoina** (Sacc.) Ellis & Saccardo

On languishing leaves of *Rhus Toxicodendrum* L. Albany, *H. D. House*, August 21, 1919. In *Mycologia*, 13: 162. 1921. Shear and Dodge indicate that this is probably *Hainesia*

lythri (Desm.) v. Hohn., and the conidial stage of *Pezizella lythri* (Desm.) Shear & Dodge. The pycnidial stage is given as *Sclerotiopsis concava* (Desm.) Shear & Dodge, and the ascogenous stage has formerly been known as *Pezizella oenotherae* (C. & E.) Sacc.

**Harknessia foeda** Saccardo & Dearness

On partially dead foliage of *Thuja occidentalis* L. Newcomb, Essex county, *H. D. House*, September 6.

**Haplosporella dulcamara** Dearness & House, sp. nov.

Stromata externally black, scattered to crowded, erumpent, tubercular to elongate, often in parallel lines, .5 to .75 mm in width, seated in the cortex and bordered by the upturned cuticle, two to twenty or more pycnidia in a stroma, usually whitish in cross-section. Conidia oblong or many of them curved, nucleate, tardily brown, 17-19 x 6-7  $\mu$ , with walls 1  $\mu$  thick, on pedicels 5-20  $\mu$  long.

On dead stems of *Solanum Dulcamara* L. Sandlake, Rensselaer county, *Dr C. H. Peck* (Type), year not indicated. Orient, Long Island, *Roy Latham*, 1916. South Bay, Madison county, *H. D. House*, September 19, 1919.

**Heterosporium gracile** (Wallr.) Sacc.

On living and languishing leaves of cultivated *Iris*, *Iris germanica* L. Munnsville, Madison county, *H. D. House*, October 13.

**Hypoxylon fusco-purpureum** (Schw.) Berkeley

On dead limbs of black ash, *Fraxinus nigra* Marsh. Caroga, Fulton county, *Dr C. H. Peck*, July (year of collection not indicated).

**Leptostromella scirpina** Peck

On dead leaves of *Scirpus fluviatilis* (Torr.) Gray. Albany, *H. D. House*, June 2, 1917 and August 26, 1919. On dead leaves of *Scirpus cyperinus* (L.) Kunth, Pecksport, Madison county, *H. D. House*, May 18, 1918.

**Metasphaeria complanata** (Tode) Sacc.

On dead stems of *Chenopodium album* L. Albany, *H. D. House*, January 6, 1918.

**Microdiplodia populi** Dearness & House

On dead twigs of *Populus nigra* var. *italica* DuRoi. Albany, *H. D. House*, May 13, 1917. Originally described from Colorado material collected by Pringle.

**Microdiplodia spiraeocola** Dearness & House, sp. nov.

Pycnidia in the bark and on the decorticated branchlets, scattered or gregarious or subcespitose, black, .5-.75 mm; conidia dark brown, septate, on very short basidia or sessile, 9-11 x 4-5  $\mu$ .

On dead twigs of *Opulaster opulifolius* (L.) Kuntze, Rensselaer, *H. D. House*, November 28, 1916 (Type). On dead twigs of *Spiraea latifolia* Borkh., Albany, *H. D. House*, January 10, 1921.

**Mycosphaerella cruris-galli** (E. & K.) Lindau

On dead leaves of grass, *Tridens flava* (L.) Hitchc. Wading River, Long Island, *Dr C. H. Peck* (date of collection not indicated). Originally described from Kansas (Swingle), on *Echinochloa Crusgalli* (L.) Beauv.

**Mycosphaerella lycopodii** (Peck) House

On dead stems (Peduncles) of *Lycopodium clavatum* L. Newcomb, Essex county, *H. D. House*, July 20, 1921. This is but a few miles from Aiden Lair, the type locality.

**Mycosphaerella oxycocci** Dearness & House, sp. nov.

Perithecia numerous, scattered, hypophyllous, perforate, 90  $\mu$  thick. Asci aparaphysate, shaped like a tennis racket, 15-30 x 9-12  $\mu$ ; stipes 15-30 x 3-4  $\mu$ . Sporidia botuliform, 9-12 x 3-4  $\mu$ ; septum dividing a narrow third from a wider two-thirds. In the material examined most of the sporidia were continuous or very obscurely septate.

On dead or languishing leaves of *Oxycoccus macrocarpus* (L.) Pers. Newcomb, Essex county, *H. D. House*, July 27.

**Myxosporium Ellisii** Saccardo

On dead twigs of *Populus nigra* var. *italica* DuRoi. Albany, *H. D. House*, May 13, 1917.

**Pestalozzia monochaetoidea** Sacc. & Ellis, var. *parasitica*

Dearness & House, var. nov.

On reddish brown areas producing the typical gloeosporial effect, namely, circinately discolored and killed tissue. The conidia are two to six septate, mostly four to five septate, and reach in exceptionally long examples to 30  $\mu$ , otherwise agreeing with typical saprophytic material on dead twigs of the same host.

On living leaves of *Opulaster opulifolius* (L.) Kuntze, Albany, *H. D. House*, August 27, 1919.

**Coccomyces coronatus** (Schum.) DeNot.*(Phacidium coronatum Fries)*

On fallen leaves of *Quercus alba* L. Oneida, Madison county, *H. D. House*, May 22, 1919. Also collected at North Elba, by *Dr C. H. Peck*, on fallen leaves of *Betula lenta*, and *Fagus grandifolia*.

**Phyllosticta caryae** Peck

On living leaves of *Hicoria alba* (L.) Britton (*Carya tomentosa* Nutt.). Glenmont, Albany county. *H. D. House*, September 18, 1918.

**Phyllosticta guttulata** Halsted

On living and languishing leaves of *Oxalis stricta* L. Albany, *H. D. House*, September 1, 1919.

**Phyllosticta iridis** Ellis & Martin

On living and languishing leaves of *Iris versicolor* L. Lakeport, Madison county, *H. D. House*, October 20. Also collected on the same host at North Elba, Essex county, September 15.

**Ramularia occidentalis** Ellis & Kellerman

On living and languishing leaves of *Rumex Britannica* L. Sylvan Beach, Oneida county, *H. D. House*, August 29, 1918.

**Septoria cirsii** Niessl.

On living leaves of *Cirsium odoratum* (Muhl.) Britton. Glenmont, Albany county, *H. D. House*, September 14, 1918. Previous collections appear to be chiefly on *Cirsium arvense*.

**Septoria canadensis** Peck

Fourth lake, Herkimer county, on living and languishing leaves of *Cornus canadensis* L., *H. D. House*, August 8, 1919. Newcomb, Essex county, *H. D. House*, June 6, 1921. Type collected by Peck at Sandlake, Rensselaer county, and another collection by Peck is from North Elba.

Doctor Peck's description needs amending to state that "the pycnidia are mostly epiphyllous but not wholly so." With the Newcomb collection, several wholly dead leaves were collected upon which the pycnidia were largely hypophyllous. Not many

Septorias are traced to their ascigenous forms. Doubtless many of them "carry on" without asci. The fruiting Septoria on the old dead fallen leaves of the Newcomb collection made when Septoria spots were just beginning to appear upon green leaves suggests that *Septoria canadensis* may be capable of infection through successive generations without asci.

### ***Septoria dentariae* Peck**

On living leaves of *Cardamine bulbosa* (Schreb.) B.S.P. Near Rensselaer, *H. D. House*, May 10, 1921.

### ***Septoria pallidula* Dearness & House, sp. nov.**

Spots pallid, bounded by the veinlets but not bordered, gradually extending over the entire leaf; pycnidia conic, pale brown, perforate, amphiphyllous, but mostly epiphyllous, 60–65  $\mu$  in diameter; sporules mostly straight, none to three-septate, not guttulate, 16–30 x 1–2  $\mu$ .

On living and languishing leaves of *Hydrocotyle americana* L. Albany, *H. D. House*, August 27, 1919.

*Septoria hydrocotyles* Desm. on *Hydrocotyle repanda*, has subregular spots, 1 mm in diameter, pycnidia epiphyllous, dark; sporules curved, eight to ten-guttulate and other minor differences as compared with the one here described. It is also different in marked characters from three other South American and African species of *Septoria* which have been described on *Hydrocotyle*.

### ***Septoria lobeliae* Peck**

On living leaves of *Lobelia syphilitica* L. Oneida, Madison county, *H. D. House*, August 27, 1918. On leaves of *Lobelia syphilitica* L. and *Lobelia cardinalis* L., Newcomb, Essex county, *H. D. House*, July 15–30.

### ***Spegazzinea rubra* Dearness & House, sp. nov.**

Sporodochia scattered, pulvinate to hemisphaeric, .25 to 3 mm, black to the naked eye when dry, dark red under the microscope; conidia dark brown, sessile, not very numerous, globose, 6–16  $\mu$ , mostly 12–15  $\mu$ , when fully developed, with polygonal markings on the walls, 3–4  $\mu$  in diameter.

On dead stems of *Polygonum scandens* L., Sylvan Beach, Oneida county, *H. D. House*, May 16, 1918.

**Sphaeropsis betulae** Cooke, var. *lutea* Dearness & House

The variety here considered occurs upon *Betula lutea*. The pycnidia are gregarious and distinctly though minutely stromate; conidia nucleate,  $18-22 \times 7\frac{1}{2}-8\frac{1}{2} \mu$ . None of the conidia measured was found to exceed  $24 \mu$  in length.

On dead branches of *Betula lutea* Michx. Sandlake, Rensselaer county, *Dr C. H. Peck*, June (year of collection not indicated).

The varietal distinction of the above is indicated by comparison with the description of *Sphaeropsis betulae* Cooke taken from Saccardo: "subgregaria, interdum sparsa, cuticula elevata tecta; peritheciis depresso globosis, vix pepil-latis; sporulis ellipticis, intrigue rotundatis, continuis, luteolis,  $30-32 \times 9 \mu$ ." On. *Betula alba*.

**Sphaeropsis gleditschiaecolae** Cooke

On dead twigs of *Gleditsia triacanthos* L. Albany, *H. D. House*, February 20, 1918.

**Sphaeropsis linearis** Peck

On dead twigs of *Quercus ilicifolia* Wang. Albany, *H. D. House*, June 7.

**Sphaeropsis populi** Ellis & Everhart

On dead twigs of *Populus nigra* var. *italica* Du-Roi. Albany, *H. D. House*, May 13, 1917.

**Sphaeropsis physocarpi** Ellis & Everhart

On dead stems of *Spiraea latifolia* Borkh. Albany, *H. D. House*, December 21, 1919 and May 13, 1921. Previously collected within a few yards of the same spot on *Opulaster opulifolius* (February 28, 1915).

**Sphaerulina acori** Dearness & House, sp. nov.

Perithecia numerous, innate, in the upper side of the discolored leaves, containing each 12 to 20 asci; walls very weak, asci aparaphysate,  $30-50 \times 15-20 \mu$ ; sporidia hyaline, three to five-septate, nucleate,  $26-30 \times 4-5 \mu$ .

On languishing leaves of *Acorus Calamus* L. Glenmont, Albany county, *H. D. House*, August 25, 1919.

Externally this does not appear distinguishable from *Lep-tosphaeria microscopica* var. *calami* Karst.

**Valsa ambiens** (Pers.) Fr.

On dead branches and twigs of *Opulaster opulifolius* (L.) Kuntze. Albany, *H. D. House*, November 29, 1917. The host material for this ubiquitous *Valsa*, as represented in the state herbarium includes the following species:

|                               |                            |
|-------------------------------|----------------------------|
| <i>Acer rubrum</i>            | <i>Magnolia virginiana</i> |
| <i>Amelanchier canadensis</i> | <i>Pyrus Malus</i>         |
| <i>Carpinus caroliniana</i>   | <i>Populus alba</i>        |
| <i>Cornus circinata</i>       | “ <i>deltoides</i>         |
| “ <i>florida</i>              | <i>Rhus glabra</i>         |
| “ <i>paniculata</i>           | <i>Rosa carolina</i>       |
| “ <i>stolonifera</i>          | <i>Rubus strigosus</i>     |
| <i>Ceanothus americanus</i>   | <i>Salix alba</i>          |
| “ <i>ovatus</i>               | <i>Tilia americana</i>     |
| <i>Corylus americana</i>      | <i>Ulmus americana</i>     |
| <i>Crataegus coccinea</i>     | “ <i>fulva</i>             |
| <i>Fraxinus americana</i>     | <i>Viburnum dentatum</i>   |
| <i>Hamamelis virginiana</i>   |                            |

**Valsa leucostoma** (Pers.) Fr.

On dead twigs of *Sorbus americana* Marsh. Bald mountain, Third lake, Herkimer county, *H. D. House*, August 9, 1919.

**Valsa cincta** Fr.

On dead branches of *Amelanchier canadensis* (L.) Medic. Clear pond and Aiden Lair, Essex county, *Peck*. On *Amelanchier bartramiana* (Tausch) Roem., North Elba, *Peck*.

**Zythia ovata** Peck

On dead bark of *Populus grandidentata* Michx. Albany, *H. D. House*, October 10, 1919.

## NOTES ON FUNGI—VIII

In the following notes on recent collections of fungi in New York, the determination of species of the *Telephoraceae* has been made by Dr E. A. Burt, of the Missouri Botanical Garden, while most of the *Uredineae* have been determined by Dr J. C. Arthur of Purdue University.

**Allodus tenuis** (Schw.) Arthur

(*Puccinia tenuis* Burrill)

On leaves of *Eupatorium urticaefolium* Reich. Bonaparte lake, Lewis county, *H. D. House*, June 22.

**Cercospora granuliformis** Ell. & Holw.

Newcomb, Essex county on leaves of *Viola septentrionalis* Greene, *H. D. House*, July 29. This species has been collected in this State upon *Viola cucullata*, and *V. pallens*, and probably occurs upon other species of violets.

**Coniophora byssoidea** (Pers.) Fries

Near Cohasset on Fourth lake, Herkimer county, on dead bark on ground in woods. *H. D. House*, August 12, 1919.

**Coniophora olivacea** Fries

Oneida, Madison county, on decayed logs in woods. *H. D. House*, November 25, 1918.

**Cercospora Cyripedii** Ell. & Dearn.

Newcomb, Essex county, on leaves of *Cyripedium reginae* Walt. *H. D. House*, August 4, 1921.

**Cercospora Gentianiae** Peck

Newcomb, Essex county, on leaves of *Gentiana linearis* Froel. *H. D. House*, August 4, 1921.

**Erysiphe lamprocarpa** Lev.

Napanoch, Ulster county, on leaves and stems of *Gerardia quercifolia* Pursh (*Aureolaria glauca* (Eddy) Raf.) *H. D. House*, August 19-21, 1921.

**Aecidium Dicentrae** Trel.

On *Capnorchis Cucullaria* (L.) Planch., VanCortlandt Park, New York City, *Percy Wilson* 52, April 20, 1915; *Williamsbridge*, no. 230, April 28, 1916.

**Cintractia caricis** (Pers.) Magn.

To the list of host species for this smut given in the *North American Flora* (vol. 7, p. 33, 34) may be added *Carex tonsa* (Fernald) Bicknell. Karner, Albany county, *Peck*. On *Carex limosa* L., the smut has been collected by Peck at Sevey, St Lawrence county. Most of the reports of this smut on *Carex stricta* Lam., doubtless refer to *Carex strictior* Dewey, as the latter sedge is distinguished by Mackenzie, the true *Carex stricta* Lam. being apparently restricted in range in this State to Long Island.

**Cintractia subinclusa** (Korn.) Magn.

On *Carex monile*, Newcomb, Essex county, *Dr C. H. Peck*. On *Carex utriculata*, Lake Sallie, Essex county, *Peck*. Determined by Dr H. S. Jackson.

**Cintractia Taubertiana** (P. Henn.) Clinton

On *Rynchospora fusca* (L.) Ait. f. Sandlake, Rensselaer county and Riverhead, Suffolk county, collected by *Dr C. H. Peck*. Determined by Dr H. S. Jackson.

**Doassansia opaca** Setch.

On leaves of *Sagittaria latifolia* Willd. Watkins, Schuyler county. *Dr C. H. Peck*. Determined by Dr H. S. Jackson.

**Coniophora sistotremoides** (Schw.) Masee

Near Albany, on decorticated and partially decayed limbs of *Pyrus Malus* L. *H. D. House*, November 30, 1919.

**Corticium arachnoideum** Berkeley

Near Albany; overspreading and seemingly parasitic on *Hypochnus isabellinus*, on fallen limbs of *Pinus strobus* L. *H. D. House*, October 15, 1919.

**Corticium bicolor** Peck

Oneida, Madison county, on fallen bark of *Pinus Strobus* L. *H. D. House*, November 25, 1918.

**Corticium confluens** Fr.

Albany, on dead branches of *Opulaster opulifolius* (L.) Kuntze. *H. D. House*, November 15 and 22, 1919; and on dead branches of *Alnus serrulata* Willd., November 8, 1919.

**Corticium galactinum** (Fries) Burt

Oneida, Madison county, on dead trunk of *Larix laricina* (DuRoi) Koch. *H. D. House*, May 20, 1918.

**Corticium vellerum** Ell. & Cragin

Ottawa, Canada, on dead willow (*Salix*, sp.). *J. M. Macoun* 281, October 2, 1897.

**Dicaeoma calthae** (Grev.) Kuntze

(*Puccinia calthae* Grev.)

Bonaparte swamp, Lewis county, on leaves of the marsh marigold, *Caltha palustris* L., *H. D. House*, June 22. Other

collections of this rust in the state herbarium are from Cattaraugus, Fulton, Albany, Tompkins and Herkimer counties.

**Dicaeoma hieraciata** (Schw.) Arthur & Kern

(*Puccinia patruelis* Arth.; *P. hieraciata* Jackson)

Pycnia and aecia on leaves of *Nabalus albus* (L.) Hook. Bonaparte swamp, Lewis county, *H. D. House*, June 23. Aecia have also been collected in this State on *Lactuca virosa* L., *L. canadensis* L. and *L. hirsuta* Muhl., and previously reported as *Puccinia Opizii*.

The telial stage occurs on *Carex brunnescens*, *C. Sartwellii*, *C. siccata*, *C. Sprengelii*, and *C. sparganioides*, and has been collected in New York only on *C. sparganioides*.

**Dicaeoma iridis** (DC.) Kuntze

Uredo stage common on *Iris versicolor* L., Bonaparte swamp, Lewis county, *H. D. House*, June 22. Also collected on same host at Tupper Lake, Franklin county; Panther lake, Oswego county; Kirkland, Oneida county; and Lakeport, Madison county.

**Dicaeoma Lysimachiae** (Schw.) Kuntze

(*P. Limosae* Magn.; *P. lysimachiata* (Link) Kern)

Aecial stage on the leaves of *Lysimachia thrysiflora* L. Bonaparte swamp, Lewis county, *H. D. House*, June 22. Also collected at Harrisville, by Doctor Peck, on the same host. Other closely related species upon which the aecial stage of this rust have been found in this State are: *Lysimachia quadrifolia*, and *L. terrestris* (L.) B. S. P.

The telial stage occurs upon *Carex arcta*, *C. brunnescens* and *C. limosa*, of which only the last occurred at Bonaparte swamp in company with the aecial host species.

**Dicaeoma minutissimum** (Arthur) Kuntze

(*Puccinia minutissima* Arth.)

Aecia on leaves of *Decodon verticillata* (L.) Ell, Bonaparte swamp, Lewis county, June 22. The telial stage of the rust was found close by on old leaves and culms of *Carex lasiocarpa* Ehrh. (*C. filiformis* Am. Auth.)

**Dicaeoma violae** (Schum.) Kuntze

(*Puccinia violae* DC.)

On leaves of *Viola scabriuscula* Schw., (aecia), Oneida, Madison county, *H. D. House*, May 24.

**Glenospora melioloides** Curt.

Albany, on leaves of *Galax aphylla* L., offered for sale in the form of wreaths, etc., during the holiday season. *H. D. House*, January 2, 1921.

**Dicaeoma Cicutae** (Lasch) Kuntze

Woodville, Jefferson county, on leaves of *Cicuta maculata* L. *H. D. House*, June 24, 1921.

**Dicaeoma Cnici** (H. Mart.) Arthur

Newcomb, Essex county, on leaves of *Cirsium lanceolatum* (L.) Hill. *H. D. House*, August 11, 1921.

**Dicaeoma Polygoni-amphibi** (Pers.) Arthur

I. on leaves of *Geranium maculatum* L., Catskill, Greene county, *H. D. House*, May 21, 1921. This collection was made in a moist upland wood, where the only species of *Polygonum* was *P. virginianum* L., but the locality was not visited later to ascertain if that was the alternate host.

**Dicaeoma Veratri** (DC.) Kuntze

Near Oneida, in Oneida county, on leaves of *Veratrum viride* L. *H. D. House*, June 30, 1921.

**Dicaeoma Trientalis** (Tranz.) Arthur & Kern

(*Puccinia Trientalis* House)

I. on *Trientalis borealis* Raf. (*T. americana* Pursh), Newcomb, Essex county, *H. D. House*, June 10, 1921. III. on dead leaves of *Carex paupercula* Michx., same locality, June 10, 1921. II & III. on same host at same station, August 10, 1921, and at Long lake, Hamilton county, August 11, 1921.

**Diaporthe euspina** C. & E.

On dead stems of *Chenopodium ambrosioides* L., Orient, Long Island, *Roy Latham*, March 1919. Determined by Dearness.

**Diatrypella verruciformis** (Ehrh.) Nke.

On dead stems of *Myrica carolinensis* Mill., near Orient, Long Island, *Roy Latham*, December 1919. Determined by Dearness.

**Gibberella pulicaris** (Fr.) Sacc.

On old stalks of *Zea Mays* L., Orient, Long Island, *Roy Latham*, July 22, 1919. Determined by Fairman.

**Melanconiella decorahensis** Ellis

On dead branches of *Betula populifolia* Marsh., Orient, Long Island, *Roy Latham*, March 1919. Determined by Dearness.

**Dicaeoma cyperi** (Arthur) Kuntze

(*Puccinia cyperi* Arthur)

Telial stage on *Cyperus Grayi* Torrey, Bay View, town of Southold, Long Island, *Roy Latham*, September. Also on *Cyperus strigosus* L. at Orient in 1915.

**Dicaeoma majanthae** (Schum.) Arthur

Aecial stage on *Polygonatum biflorum* (Walt.) Ell., Orient, Long Island, *Roy Latham*, May 30. Previously reported from Southold on *Vagnera racemosa* (L.) Morong.

**Uredinopsis mirabilis** (Peck) Magnus

II, III, on fronds of *Onoclea sensibilis* L., Gardiner's Island, *Roy Latham*, August 1919. On fronds of *Lorinseria areolata* (L.) Presl., at Greenport, *Latham*, August 1920. The aecial stage (*Peridermium balsameum* Peck) occurs upon *Abies balsamea* (L.) Mill., a host tree, not known to occur on Long Island. It has also been collected by Peck, on *Anchistea virginica* (L.) Presl. at Manor, Long Island.

**Nigredo hedysari-paniculati** (Schw.) Arthur

(*Uromyces hedysari-paniculati* Farlow)

On leaves of *Meibomia Dillenii* Darl., at Bay View, town of Southold, Long Island, *Roy Latham*, August 21.

**Glomularia lonicerae** (Peck) comb. nov.

(*G. corni* var. *lonicerae* Peck)

On living and languishing leaves of *Lonicera canadensis* Marsh., near Taborton, Rensselaer county, *H. D. House*, June 30, 1921, and at Newcomb, Essex county, on the same host, July 20, 1921. The type collections were made by Doctor Peck at Long lake and Aiden Lair.

**Hypochnus granulosis** (Peck) Burt

Near Albany, on fallen branches of *Pinus rigida*, *H. D. House*, October 20, 1919.

**Hypochnus rubiginosus** Bres.

Napanoch, Ulster county, on decayed branches and débris on the ground in woods, *H. D. House*, October 5, 1919.

**Hypochnus subvinosus** Burt

Near Albany, on dead bark of *Pinus Strobus* L. *H. D. House*, October 15, 1919.

**Leptosphaeria Crepini** (Westd.) Karst.

On spikes of *Lycopodium annotinum* L., which seem to have been aborted and killed by the fungus, near Newcomb, Essex county, *H. D. House*, July 15-30, 1921. Previously collected by Doctor Peck on this host on Mount Marcy and Mount Skylight.

**LEUCOLOMA** Fckl. Symb. 317. 1869

*Peziza*, Sect. *Humaria* Fr. Sym. Myc. 2: 42. 1822

*Humaria* Sacc. Syll. 8: 118. 1889

*Pseudombrophila*, *Coprobria* and *Discinella* Boud.

The generic name *Leucoloma* appears to possess priority over *Humaria*, and several New York species in the state herbarium may be transferred to this name.

*Leucoloma adusta* (C. & P.) comb. nov. *Peziza adusta* C. & P.; *Humaria adusta* Sacc.

*Leucoloma deligata* (Peck) comb. nov. *Peziza deligata* Peck; *Humaria deligata* Sacc.

*Leucoloma echinosperma* (Peck) comb. nov. *Peziza* (*Humaria*) *echinosperma* Peck.

*Leucoloma gallinacea* (Pec) comb. nov. *Peziza gallinacea* Peck; *Humaria gallinacea* Sacc.

*Leucoloma Gerardi* (Cooke) comb. nov. *Peziza Gerardi* Cooke; *Humaria Gerardi* Sacc.

*Leucoloma hydrophila* (Peck) comb. nov. *Peziza hydrophila* Peck; *Humaria hydrophila* Sacc.

*Leucoloma Peckii* (House) comb. nov. *Humaria Peckii* House.

**Lophodermium sphaeroides** (A. & S.) Duby

On fallen leaves of the Labrador tea, *Ledum groenlandicum* Oeder, Bonaparte swamp, Lewis county, *H. D. House*, June 23. Also collected by Doctor Peck at Sandlake, Rensselaer county.

**Marasmius campanellus** (Peck) Atk. & House

On dead twigs of *Arbor Vitae*, *Thuja occidentalis* L., in Bonaparte swamp, northern Lewis county, *H. D. House*, June 22, and at Newcomb, Essex county, July 20. This curious little Agaric, typically a *Marasmius* in texture, but with a densely hirsute pileus, appear to be quite common on dead twigs of *Arbor Vitae* which are still attached to the tree or on branches and twigs lying loosely upon the ground, throughout the cold cedar swamps of central and northern New York.

**Melampsorella elatina** (A. & S.) Arthur

Abundant on the dwarfed needles of "witches brooms," which it causes on the balsam fir, *Abies balsamea* (L.) Mill. Newcomb, Essex county, *H. D. House*, July 21, 1921. Not uncommon in Essex, Hamilton and Greene counties, but the alternate stage on *Cerastium arvense*, appears to have been collected in this State only at Poughkeepsie, many years ago by Gerard.

**Melampsoropsis abietina** (A. & S.) Arthur

II and III, on leaves of Labrador tea, *Ledum groenlandicum* Oeder, Bonaparte swamp, Lewis county, *H. D. House*, June 22. Not previously reported from this State, and the aecial stage. *Peridermium abietinum* Thum., occurring on *Picea mariana*. *P. rubens* and *P. excelsa*, has not been collected in New York.

**Melampsoropsis chiogenis** (Dietel) Arthur

On the under surface of leaves of the creeping snowberry, *Chiogenes hispidula* (L.) A. Gray. Bonaparte swamp, Lewis county, *H. D. House*, June 22. The upper surface of the infected leaves are conspicuously yellow, and this serves as a ready means of finding what is otherwise a very inconspicuous and rare rust. It has been reported from North Elba by Kauffman (N. Y. State Mus. Bul. 179, p. 85. 1915) as *Chrysomyxa chiogenis* Dietel.

The adjacent conifers were *Pinus Strobus*, *Larix laricina*, *Abies balsamea*, *Picea mariana* and *Picea rubens*, while *Tsuga canadensis* occurred within 200 yards on an adjacent slope. The aecial stage is suspected to occur upon the cones of one of the species of *Picea*.

**Melampsoropsis ledicola** (Peck) Arthur

(Peridermium decolorans Peck)

Newcomb, Essex county, on needles of *Picea mariana* (Mill.) B. S. P., and *Picea canadensis* (Mill.) B. S. P., *H. D. House*, July 28, 1921. This rust is found generally distributed throughout the Adirondack region in most swamps where spruce and Labrador tea (*Ledum groenlandicum*) occur together, and also locally elsewhere across the State.

**Melampsoridium betulae** (Schum.) Arthur

On leaves of the gray birch, *Betula populifolia* Marsh., Averill Park, Rensselaer county, *H. D. House*, October 3. Practically every leaf on a small tree, about 2 inches in diameter, was found to be heavily infected. The tree grew almost in the shade of a white pine, and a few hemlocks and pitch pines grew within a short distance. The aecial stage of this rust occurs upon *Larix laricina*, a species which is not known to occur within a mile of this spot. No infection was found on any of several other gray birches close by.

**Metasphaeria Peckii** (Speg.) Sacc.

(Sphaerella Peckii Speg.)

On fallen leaves of June berry, *Amelanchier spicata* (Lam.) C. Koch, near New London, Oneida county, *H. D. House*, May 17, 1921. Peck's original collection of this from near Albany contains what appears to be leaves of both *A. spicata* and *A. canadensis*.

**Micropuccinia conglomerata** (Strauss) Arthur & Jackson

(Puccinia nardosmiae E. &amp; E.)

On leaves of *Petasites palmata* (L.) A. Gray, near Newcomb, Essex county, *H. D. House*, June 15 and July 21, 1921. This rare rust has not heretofore been reported from New York, and Doctor Arthur states that it has been found only at the following American stations: Vermillion Lake, Minn., Stittsville and Nipigon River, Ontario and Glacier, British Columbia, all on the same host. In Europe it is recorded as occurring upon several species of *Senecio*, *Cacalia*, *Adenostylis* and *Homogyne*.

**Dicaeoma orbicula** (Peck & Curt.) Kuntze

(Puccinia orbicula Peck &amp; Curt.)

On leaves of *Nabalus albus* (L.) Hook., Pecksport, Madison county, *H. D. House*, May 26, 1921. Also represented in the state herbarium by collections from Erie, Onondaga, Lewis, Schuyler and Herkimer counties.

**Micropuccinia porphyrogenita** (Curt.) Arthur & Jackson

(Puccinia acuminata Peck)

On leaves of dwarf cornel, *Cornus canadensis* L., Newcomb, Essex county, *H. D. House*, July 28, 1921. This rather uncommon rust has been collected at North Elba and Sandlake by Doctor Peck, and at Sylvan Beach, Oneida county, by the writer.

**Microsphaeria diffusa** C. & P.

Karner, Albany county on leaves of bush clover, *Lespedeza capitata* Michx. *H. D. House*, September 12, 1919. A common leaf fungus on *Meibomia canadense*, and also known on *Lathyrus ochroleucus* and *L. myrtillifolius*.

**Nigredo houstoniata** (Schw.) J. Sheldon

On leaves of *Houstonia coerulea* L., Newcomb, Essex county, *H. D. House*, July 17, 1921.

**Melampsoropsis empetri** (Pers.) Arth.

Summit of Mount Marcy, on leaves of *Empetrum nigrum* L. *H. D. House*, August 5, 1921. Collected by Doctor Peck on Mount Skylight.

**Microsphaeria Russellii** G. W. Clinton

Oneida, Madison county, on leaves and stems of *Oxalis cymosa* Small, *H. D. House*, October 18, 1921. On same host, Newcomb, Essex county, August 10, 1921. Other collections are Argusville, *Peck*; Poughkeepsie, *Gerard*; Buffalo, *Clifton*; North Greenbush, *Peck*.

**Nigredo Howei** (Peck) Arthur

On *Asclepias Syriaca* L. New London, Oneida county, *H. D. House*, September 14, 1921; Oriskany Falls, Oneida county, September 16, 1921; Woodville, Jefferson county,

September 10, 1921; Lewis Point, Madison county, September 12, 1921.

On *Asclepias incarnata* L. Lewis Point, Madison county, *H. D. House*, September 12, 1921.

During several seasons that the writer has been interested in rusts, search had been carefully made for this species, but until 1921 unsuccessfully. During the season of 1921, however, this rust was universally present on almost every clump of milkweed throughout central New York. In many cases the infection was so complete that the rust could be detected from a considerable distance.

***Nigredo Junci-effusi* (Sydow) Arthur**

Napanoch, Ulster county, on *Juncus effusus* L. *H. D. House*, August 19-21, 1921.

***Nigredo piriformis* (Cke. & Peck) Arthur**

On *Acorus Calamus* L., Woodville, Jefferson county, *H. D. House*, September 10, 1921. Lewis Point, Madison county, September 12, 1921. Pecksport, Madison county, September 16, 1921.

Like *Nigredo Howei*, this rust occurred during the season of 1921 in unusual abundance.

***Nyssopsora clavellosa* (Berk.) Arthur**

Newcomb, Essex county, on leaves of *Aralia nudicaulis* L. *H. D. House*, August 10, 1921, and on the same host at Long Lake, Hamilton county, August 11, 1921.

***Micropuccinia ornata* (Arth. & Holw.) Arth. & Jackson**

Woodville, Jefferson county, on *Rumex Britannica* L. *H. D. House*, September 10, 1921.

***Micropuccinia recedens* (Sydow) Arth. & Jackson**

On *Senecio aureus* L., Arkville, Delaware county. *Percy Wilson* 117, July 25, 1915; Williamsbridge New York City, no. 303, June 2, 1916.

***Mollisia Iridis* (Rehm) Sacc.**

South Bay, Madison county, on languishing leaves of *Iris versicolor* L. *H. D. House*, September 16. Determined by Dr F. J. Seaver, who states that "the apothecia are more superficial than those of European specimens."

**Otidea grandis** (Pers.) Rehm

On ground in woods. Newcomb, Essex county. *H. D. House*, July 28. Determined by Dr F. J. Seaver.

**Pyrenopeziza subatra** (C. & P.) Sacc.

Lake Bonaparte, Lewis county, on dead stems of *Decodon verticillatus* (L.) Ell. *H. D. House*, June 23. Determined by Dr F. J. Seaver.

**Peniophora cinerea**

Most of the resupinate members of the Thelephoraceae appear to have no definite host relationships, but are merely saprophytic upon any convenient material. Recent collections of the common *Peniophora cinerea* have been made upon dead branches still attached to the parent plant, in moist shaded places, of the following species:

*Rubus strigosus Michx.*  
*Alnus serrulata Willd.*  
*Viburnum dentatum L.*  
*Ilex verticillata (L.) Gray*  
*Vitis aestivalis Michx.*

On fallen branches of the following:

*Hicoria alba (L.) Britton*  
*Prunus serotina Ehrh.*  
*Prunus pennsylvanica L. f.*  
*Amelanchier canadensis (L.) Medic.*  
*Cornus florida L.*  
*Corylus americana Walt.*  
*Ulmus americana L.*  
*Acer spicatum Lam.*

**Peniophora incarnata** Fries.

Near Albany, on dead branches of *Quercus ilicifolia* Wang. and dead branches of *Opulaster opulifolius* (L.) Kuntze, *H. D. House*, November 15 and 23, 1919.

**Peniophora Eichleriana** Bresadola

Bergen swamp, Genesee county, on decayed and fallen branches of *Acer rubrum L.*, *H. D. House*, August 23, 1918.

**Peniophora sera** (Pers.) Burt

Lyndonville, Orleans county, *C. E. Fairman*, November 1, 1910.

**Phyllachora agrostidis** Orton

On leaves of *Agrostis alba*. Orient, Long Island, *Roy Latham*, no. 610, October 18, 1914. Determined by Dr C. R. Orton.

**Phyllachora graminis** (Pers.) Fekl.

On leaves of *Elymus virginica*. Catskill, *Peck*. On leaves of *Elymus canadensis*, Albany, *Peck*. On leaves of *Agropyron repens*, Sylvan Beach, Oneida county, *House*. On leaves of *Triticum repens*, West Albany, *Peck*. Determined by Dr C. R. Orton.

**Phyllachora elymi** Orton

On leaves of *Elymus virginica*, North Bay, Oneida county, *House*. Determined by Dr C. R. Orton.

**Phyllachora vulgata** Theiss. & Sydow.

On leaves of *Muhlenbergia mexicana*, North Greenbush, *Peck*. On leaves of *Muhlenbergia glomerata*, Karner, *Peck*. Determined by Dr C. R. Orton. On *M. racemosa*, Newcomb, Essex county, *H. D. House*, August 4, 1921.

**Phyllachora luteo-maculata** (Schw.) Orton

On leaves of *Andropogon furcatus*, Karner, Albany county, *Peck*. Determined by Dr C. R. Orton.

**Phyllachora puncta** (Schw.) Orton

On leaves of *Panicum latifolium*, Yaphank, Long Island, *Peck*. On leaves of *Panicum Wrightianum*, Southold, *Latham*, no. 611, November 4, 1914. On leaves of *Panicum clandestinum*, Wading River, *Peck*; Hempstead, *House*. On leaves of *Panicum dichotomum*, Shokan, *Peck*. Determined by Dr C. R. Orton.

**Sorosporium syntherismae** (Peck) Farl.

On the inflorescence of *Cenchrus pauciflorus* Benth. (*C. carolinianus* Auth.), Karner, Albany county and Port Jarvis, Sullivan county, *Dr C. H. Peck*. The host plant for this smut in New York has been commonly referred to *Cenchrus tribuloides*, a species of the southern Atlantic coastal region.

**Urocystis occulta** (Wallr.) Rab.

On cultivated rye, *Secale cereale* L., near Albany, *H. W. Fitch*, August 3.

**Ustilago neglecta** Niessl.

On the spikelets of *Chaetochloa lutescens* (Weigel) Stuntz (*Chaetochloa glauca*). Westport, Essex county; Menands and Bethlehem, Albany county, Dr C. H. Peck. Determined by Dr H. S. Jackson.

**Ustilago levis** (Kellerm. & Swingle) Magn.

On the spikelets of cultivated oats, *Avena sativa* L. Wood farm, North Elba, Essex county. Dr C. H. Peck, August. Determined by Dr H. S. Jackson.

**Pucciniastrum agrimoniae** (Schw.) Tranz.

Near Cambridge, Washington county, on leaves of *Agrimonia hirsuta* (Muhl.) Bickn. H. D. House, September 17. The collections of this rust in the state herbarium indicate the following distribution by counties: Albany, Saratoga, Washington, Rensselaer, Oneida, Madison, Ulster, Queens and Suffolk.

**Pucciniastrum potentillae** Kom.

On leaves of *Sibbaldiopsis tridentata* (Soland.) Rydb. (*Potentilla tridentata* Soland.), near Elizabethtown, Essex county, H. D. House, September 16.

This rust has also been collected on the same host at Berlin mountain, Rensselaer county, by W. G. Farlow, September 1901; and at Black mountain, Washington county, by S. H. Burnham, August 19, 1909. At Elizabethtown the infected plants grow in an open barren field with numerous clumps of *Juniperus sibirica*, and in the adjacent woodland there are white pine, hemlock, balsam fir and white spruce.

**Ramularia multiplex** Peck

Newcomb, Essex county, on leaves of *Oxycoccus Oxycoccus* (L.) MacM. (*Vaccinium Oxycoccus* L.), H. D. House, July 28. The type of this parasitic fungus was collected by Dr C. H. Peck at Caroga, Fulton county, on the same host. The infected leaves turn a bright pink or reddish color, or when only a portion of the leaf is infected, there is a yellow band between the unaffected portion and the reddish infected part.

**Septoria agrimoniae** Roum.

Newcomb, Essex county, on leaves of *Agrimonia gryposepala* Wallr., H. D. House, August 11, 1921.

**Peronospora pygmaea** Ung.

Wemple, Albany county, on leaves of *Anemone pennsylvanica* L. *H. D. House*, May 18, 1921.

**Venturia Dickiei** DeNot.

Newcomb, Essex county, on leaves of *Linnaea americana* Forbes. *H. D. House*, June 6-14, 1921.

**Septoria aquilegiae** Penz. & Sacc.

Bonaparte swamp, Lewis county, on living leaves of *Aquilegia canadensis* L., *H. D. House*, June 22.

**Septoria corylina** Peck

Newcomb, Essex county, on leaves of *Corylus cornuta* Marsh. (*C. rostrata* Ait.), *H. D. House*, July 27.

**Septoria Ludwigiæ** Cooke

On leaves of *Ludwigia sphaerocarpa* Ell., Westchester county, *C. S. Sheldon*, August 1902. Frequent in many parts of the State on leaves of *Isnardia palustris* L. (*Ludwigia palustris* Ell.), and collected once on *Ludwigia alternifolia* L., at Menands, Albany county, by Dr C. H. Peck.

**Septoria osmorrhizæ** Peck

Lake Bonaparte, Lewis county, on leaves of *Osmorrhiza Claytoni* (Michx.) Clarke, *H. D. House*, June 22. Also collected by Peck at Lowville, Lewis county, and at Schoharie, (type) by Peck, and near Albany by House.

**Stereum gausapatum** Fries

Near Wemple, Albany county, on bark of dead standing trunk of white oak, *Quercus alba* L., *H. D. House*, September 15, 1919.

**Stereum Murrayi** (B. & C.) Burt

Near Cohasset on Fourth lake, Herkimer county, on dead branches of *Betula lutea* Michx. f., *H. D. House*, August 11, 1919; also near Oneida, Madison county, on dead trunk of *Betula lutea*, May 13, 1919.

**Stereum ochraceo-flavum** Schw.

Albany, on dead branches of *Betula populifolia* Marsh., *H. D. House*, November 30, 1919; and on dead branches of *Quercus ilicifolia* Wang., November 17, 1916.

**Stereum purpureum Pers.**

Oneida, Madison county, on dead stump of some hardwood tree.  
*H. D. House*, November 25, 1918.

**Stereum rameale Schw.**

Oneida, Madison county, on fallen trunk of *Betula lutea* Michx. f., *H. D. House*, May 13, 1918; and on *Alnus serrulata* Willd., Albany, November 8, 1919; on *Alnus serrulata* Willd. near Napanoch, Ulster county, October 6, 1919.

**Uredo Bigelowii (Thum.) Arthur**

(*Melampsora Bigelowii* Thum.)

II and III, on leaves of *Salix pyrifolia* Anderss., Bonaparte swamp, Lewis county, *H. D. House*, June 22. A new host species for this common rust in New York. The aecial stage on *Larix laricina* (DuRoi) Koch, was also collected at Bonaparte swamp, on the same date.

**Ustilago Heufleri Fckl.**

(*U. erythronii* G. W. Clinton)

Near Oriskany Falls, Oneida county, on living leaves of *Erythronium americanum* Ker. *H. D. House*, May 26.

**Venturia compacta Peck**

Newcomb, Essex county, on leaves of *Oxycoccus Oxycoccus* (L.) MacM., *H. D. House*, July 24. This constitutes a new host for this fungus in this State. All the several other collections in the state herbarium are on *Oxycoccus macrocarpus* (Ait.) Pers.

**Pezicula fasciculata (Tode) comb. nov.**

*Tubercularia fasciculata* Tode, Meckl. Fungi, 1790; *Peziza carpinea* Pers.; *Pezicula carpinea* Tul.

On dead branches of *Carpinus caroliniana*. Fish Creek, Oneida county, *H. D. House*, September 1918.



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